TOSHIBA

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SERVICE MANUAL

COMBINATION LCD TELEVISION AND DVD VIDEO PLAYER

SD-P7000

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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the LCD PANEL.
For continued X-RAY RADIATION protection, the replacement panel must be the same type panel as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum.
Measure the high voltage.
The meter reading should indicate
23.5 ¡ 1.5KV: 14-19 inch, 26 ¡ 1.5KV: 19-21 inch,
29.0 ¡ 1.5KV: 25-29 inch, 30.0 ¡ 1.5KV: 32 inch
If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

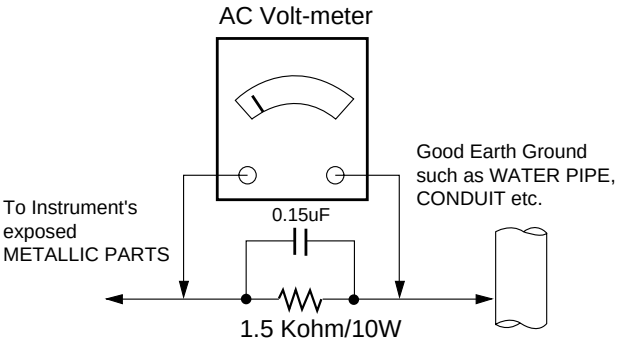
Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.
Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
   Do not test high voltage by "drawing an arc".
3. Do not spray chemicals on or near this receiver or any of its assemblies.
4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
8. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices.* Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500¡ÆF to 600¡ÆF.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle.
   Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature. (500¡ÆF to 600¡ÆF)
   b. Heat the component lead until the solder melts.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
   CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500¡ÆF to 600¡ÆF)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
   CAUTION: Work quickly to avoid overheating the circuit board printed foil.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

This specification is applied to ML-041C chassis.

2. Requirement for Test

Testing for standard of each part must be followed in below condition.

(1) Temperature: 25°C ± 2°C
(2) Power: Standard input voltage (AC 90~132V, 50/60Hz)
(3) Measurement must be performed after heat-run more than 30min.
(4) Adjusting standard for this chassis is followed a special standard.

3.General Specification

No.	Item		Specification	Remark
1	Maker		LPL	LPL
	Type		TFT Color LCD Module	
	ActiveDisplay Area		17.0 inches(434.38mm) diagonal(Aspect 15:9)	
	Pixel Pitch [mm]		0.291mm(H)x0.291mm(V)xRGB	
	Electrical Interface		LVDS	
	Color Depth		8BIT, 16,777,216 colors	
	Size [mm]		400(H)x258(V)x22(D)	
	Surface Treatment		Anti Glare Hard Coating(3H)	
	Operating Mode		Normally Black	
	Back light Unit		6 lamps	
	R/T	Typ.	R.T.:12ms + F.T.:13ms	

4. Function

No	Item	Specification	Remark
1	REMOCON	TOSHIBA Code	NTSC
2	AV Input	1	Side
3	S-Vedio Input	1	Side
4	Component input	1	Rear (NTSC)
5	RGB(VGA)Input	1	D-sub 15 pin
6	Ear-phone output	1	Side
7	PC Sound input	1	
8	Film Mode	x	
9	Progressive Scan	0	
10	ARC	0	

5.Optical Character

No	Item	Specification				Remark
		Module kind			**LPL**	
1	Viewing Angle	R/L			85/88	
	<CR≥10>	U/D			85/88	
2	Luminance	Luminance (cd/m^2)			450	Typical
		Variation			1.3	MAX
3	Contrast Ratio				400	All white / All black
4	CIE Color Coordinates	White	W_X	Typ.	0.283	Min = Typ. - 0.03
			W_Y	Typ.	0.294	Max = Typ. + 0.03
		RED	X_r	Typ.	0.631	
			Y_r	Typ.	0.341	
		Green	X_g	Typ.	0.287	
			Y_g	Typ.	0.609	
		Blue	X_b	Typ.	0.146	
			Y_b	Typ.	0.064	

6. Engineering Specification

6-1.General Specification(TV)

	Item	Specification			Remark
	Power Supply	H/V Sync	Video	Power Consumption	LED Color
	Normal	On/On	Active	≤65W	GREEN
	Stand By,	Off/On		≤2W	AMBER
	Suspend Mode	On/Off	Off	≤5W	GREEN
	DPM Off Mode	Off/Off		≤5W	
	Cut-off Switch off	-	-	0W	OFF
				PBP SWAP	ON/OFF
1	ITEM	Specification			remark
2	D-SUB Pin configuration	1 : RED 3 : Blue 5 : S.T (GND) 7 : Green GND 9 : N.C 11: ID0(GND) 13: H-Sync 15: SCL		2 : Green 4 : ID2 (GND) 6 : RED GND 8 : Blue GND 10: D-GND 12:SDA 14: V-Sync Shell: GND	10: Digital GND
3	Control Function	1) Contrast/Brightness 2) H-Position / V-Position 3) Tracking : Clock / Phase 4) Auto ConfigureRESET			
4	Comoponent Jack	1 : Y 3 : Pb 5 : Pr			

6-2. Power

No	Item	Min	Typ	Max	Unit	Remark
1	AC Power Shut Down Voltage	90		264	V	
2	DC Voltage, Inverter	22.8	24	25.2	V	
3	DC Voltage, LCD Panel	11.4	12	12.6	V	
4	DC Voltage, Audio	14.0	15	16.0	V	
5	DC Voltage, Tuner(5)	4.5	5	5.5	V	
6	DC Voltage, Tuning(31)	31	33	35	V	
7	DC Voltage, VCTi(5)	4.5	5	5.5	V	
	DC Voltage, VCTi(8)	7.5	8	8.5	V	
8.	DC Voltage, VCTi(3.3)	3.1	3.3	3.5	V	
	DC Voltage, VCTi(1.8)	1.6	1.8	2.0	V	
9	DC Voltage, GM2221 (3.3)	3.1	3.3	3.5	V	
	DC Voltage, GM2221 (1.8)	1.6	1.8	2.0	V	
10	DC Voltage, Digital (3.3)	2.8	3.3	3.8	V	
11	DC Voltage, Digital (5)	4.5	5	5.5	V	

6-3. External Interface

No	Item	Min	Typ	Max	Unit	Remark
1.	Audio Input Level	0.3	0.4	0.5	V	
2.	Audio Input Frequency Response	0.1		7	KHz	
3.	Audio Input S/N	40			DB	
4.	Audio Input Distortion			2	%	
5.	Audio Input Dynamic Range	2			V	
6.	Video Output Level	0.85	1	1.15	Vpp	
7.	Video Output Frequency Response	3.8			MHz	
8.	Video Output S/N	40			DB	
9.	Audio Output Level	0.4	0.5	0.6	V	
10.	Audio Output Frequency Response	0.1		7	KHz	
11.	Audio Output S/N	40			DB	
12.	Audio Output Distortion			2	%	
13.	Video Input Level, R/G/B	0.6	0.7	0.8	Vpp	75 ohm
14.	Video Input Level, Component(Y, PB, PR)	0.6	0.7	0.8	Vpp	75 ohm
15.	RGB Input Resolution, Vertical		768		Pixel	
16.	RGB Input Resolution, Horizontal		1280		Pixel	
17.	RGB Input Horizontal Frequency				KHz	See table 5-5
18.	RGB Input Frame Rate				Hz	See table 5-5

6-4. The Others

No	Item	Min	Typ	Max	Unit	Remark
1.	Search Sensitivity			-85	dBm	
2.	Soft Ware Functionality Test					LGE Specification
3.	REMOCON Working Sensitivity, Straight	0.1		10	m	
4.	REMOCON Working Sensitivity, T/B/L/R	0.1		9	m	30 degree
5.	Closed Caption Sensitivity			-70	dBm	
6.	Teletext Sensitivity			-70	dBm	

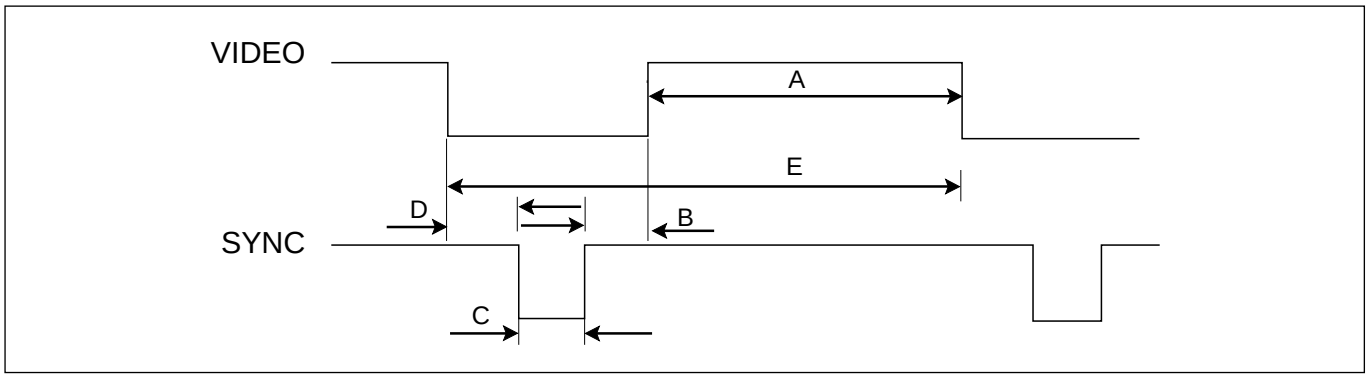
7. Signal Timing(Resolution)

7-1. PC Mode

[Table 7] Timming chart of Receivable Mode * H [dot] / V [line]

Mode	VGA-60	VGA-67	VGA-75	SVGA-56	SVGA-60	SVGA-72	SVGA-75	MAC-75	XGA-60	XGA-70	XGA-75
H_display	640	640	640	800	800	800	800	832	1024	1024	1024
V_display	480	480	480	600	600	600	600	624	768	768	768
V frequency	60	67	75	56	60	72	75	75	60	70	75
H_total	800	864	840	1024	1056	1040	1056	1152	1344	1328	1312
H_blanking	160	224	200	224	256	240	256	320	320	304	288
H_sync	96	64	64	72	128	120	80	64	136	136	96
H Polarity	NEG.	NEG.	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS
H_bp	48	96	120	128	88	64	160	224	136	144	176
H_fp	16	64	16	24	40	56	16	32	160	24	16
H-freq[kHz]	31.469	35.0	37.5	35.156	37.879	48.077	46.875	49.725	48.363	56.476	60.023
/Clk[MHz]	25.175	30.24	31.5	36.0	40.0	50.0	49.5	57.283	65.0	75.0	78.75
V_total	525	525	500	625	628	666	625	667	806	806	800
V_blanking	45	45	20	25	28	66	25	43	38	38	32
V_sync	2	3	3	2	4	6	3	3	6	6	3
V Polarity	NEG	NEG	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS
V_bp	33	39	16	22	23	23	21	39	29	29	28
V_fp	10	3	1	1	1	37	1	1	3	3	1

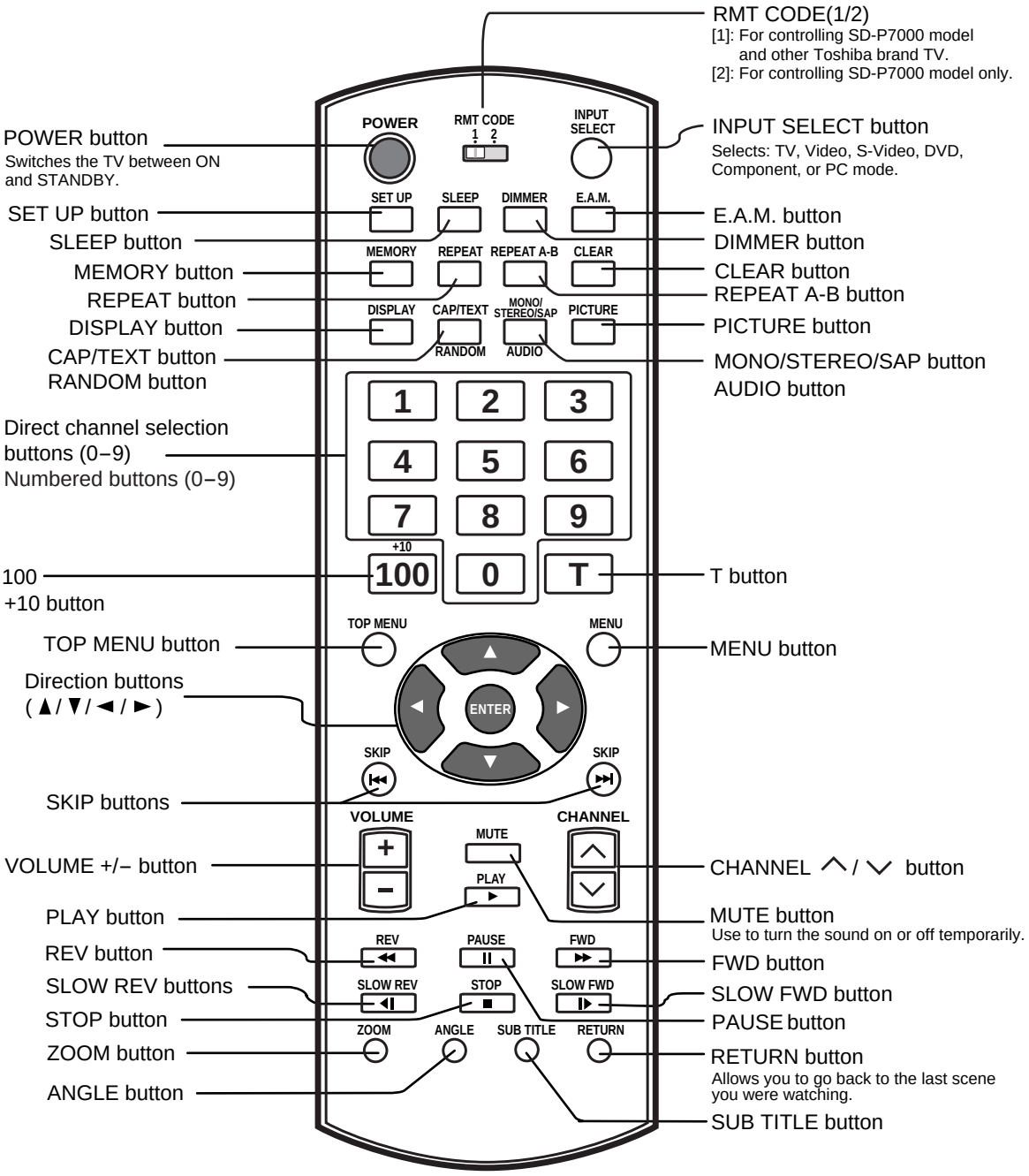
TIMING CHART



<< Dot Clock **(MHz),** Horizontal Frequency **(kHz)**, Vertical Frequency **(Hz)**, Horizontal etc... **(μs)**, Vertical etc... **(ms) >>**

Mode	H/V Sort	Sync Porarity	DOT Clock	Frequency	Total Period (E)	Video Active Time (A)	Front Porch (C)	Sync Duration (D)	Back Porch (F)	Resolution
1	H(Pixels)	+	25.175	31.468	800	640	16	96	48	640 x 350
	V(Lines)	-		70.090	449	350	37	2	60	
2	H(Pixels)	-	28.324	31.469	900	720	18	108	54	720 X 400
	V(Lines)	+		70.082	449	400	13	2	34	
3	H(Pixels)	-	25.175	31.469	800	640	16	96	48	640 x 480
	V(Lines)	-		59.94	525	480	10	2	33	
4	H(Pixels)	-	31.5	37.5	840	640	16	64	120	640 x 480
	V(Lines)	-		75	500	480	1	3	16	
5	H(Pixels)	+	40.0	37.879	1056	800	40	128	88	800 x 600
	V(Lines)	+		60.317	628	600	1	4	23	
6	H(Pixels)	+	49.5	46.875	1056	800	16	80	160	800 x 600
	V(Lines)	+		75.0	625	600	1	3	21	
7	H(Pixels)	+/-	57.283	49.725	1152	832	32	64	224	832 x 624
	V(Lines)	+/-		74.55	667	624	1	3	39	
8	H(Pixels)	-	65.0	48.363	1344	1024	24	136	160	1024 x 768
	V(Lines)	-		60.004	806	768	3	6	29	
9	H(Pixels)	+	78.75	60.023	1312	1024	16	96	176	1024 x 768
	V(Lines)	+		75.029	800	768	1	3	28	
10	H(Pixels)	-	65.125	39.518	1648	1280	56	128	184	1280 x 768
	V(Lines)	+		49.959	791	768	1	7	15	
11	H(Pixels)	-	80.125	47.693	1680	1280	64	136	200	1280 x768
	V(Lines)	+		59.992	795	768	1	7	19	

REMOTE CONTROL



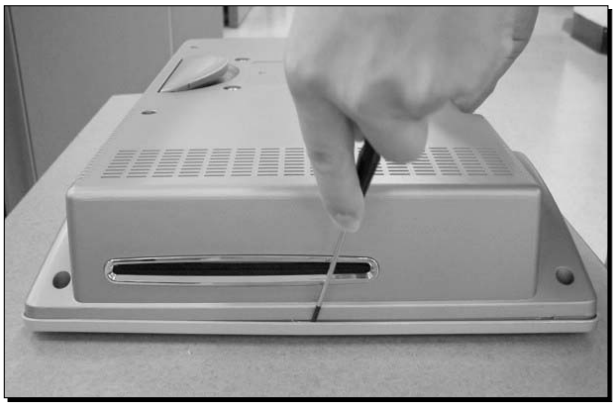
DISASSEMBLY

1

1-1. Remove 8 screws of the Back cover.

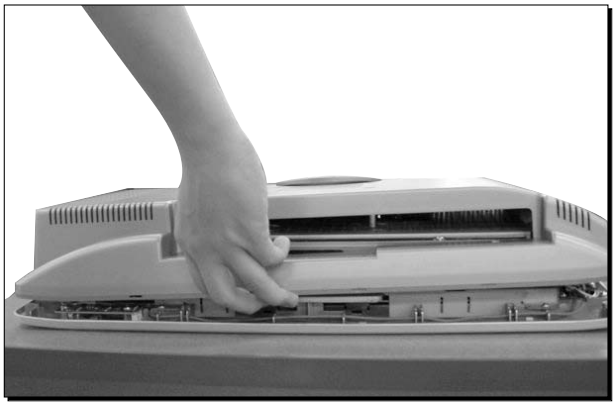
1-2. Using the Jig, disassemble points which was latched under left and right sides .

2



2-1. Using the jig, disassemble points which was latched at center of left and right sides.

3



3-1. Disclose the lower side of the Back cover.

4

4-1. At first, remove two screws from the small power control PCB Ass'y.

4-2. Using the jig, disassemble point which was latched and then remove the small Power jack control PCB Ass'y from the cabinet.

ADJUSTMENT INSTRUCTION

1. Application Object

This instruction is for the application to the LCD TV.

2. Adjustment

2.1 Adjustment overview

The unit is set to automatically adjust using the factory automation equipment. However when errors occur, it should be adjusted manually.

2.2 Auto Gain/Offset adjustment

2.2.1 RF Mode adjustment

2.2.1.1 Adjustment preparation

¡Æ Conduct Heat Run at the RF fog signals for more than 30 minutes.

2.2.1.2 Auto Gain/Offset adjustment

¡Æ Press IN-START Key to convert to the adjustment mode using the adjustment (SVC) remote controller, and press VOL+ Key at the Auto Gain menu.

¡Æ Once the adjustment is completed, press the Enter Key to save and finish the adjustment.

2.2.2 Component Mode adjustment

2.2.2.1 Adjustment preparation

¡Æ Conduct Heat Run at the RF fog signals for more than 30 minutes.

¡Æ Connect the Pattern Generator to the Component Jack (Y, Pb, Pr) of LCD TV.

2.2.2.2 Auto Gain/Offset adjustment

¡Æ Convert the input mode to the component input.

¡Æ Select Model: 228(480p Mode, Y 100%, Pb/Pr: 75%) in Pattern Generator
Select PATTERN: 33(Color Bar Pattern signal)in Pattern Generator

¡Æ Press the IN-START Key by using the Remote Conroller(SVC), after converting to Adjustment-Mode, press VOL+Key consecutively in AutoGain Menu.

¡Æ After adjustment complete, pressing enter key, stores and completes process

2.2.3 PC Mode adjustment

2.2.3.1 Adjustment preparation

¡Æ Conduct Heat Run at the RF fog signals for more than 30 minutes.

¡Æ Connect the Pattern Generator to 15 Pin D-Sub Jack of LCD TV.

2.2.3.2 Auto Gain/Offset adjustment

¡Æ Convert the input mode to PC input.

¡Æ Using the Pattern Generator (801GF, VG819) adjust XGA (1024 X 768@60Hz) for resolution and 16 Step Gray signals for the pattern. Or adjust the 16 Step (11 Step) Gray signals in accordance with VG819.

¡Æ Convert the input mode to PC input and convert to the adjustment mode using the adjustment (SVC) remote controller and pressing the IN-START Key, and then press VOL+ Key at the AutoGain menu.

¡Æ Once the adjustment is completed, press the Enter Key to save and finish the adjustment.

2.3 EDID (The Extended Display Identification Data) setting

¡Æ Connect the 15 Pin D-Sub Cable to D-Sub Jack.

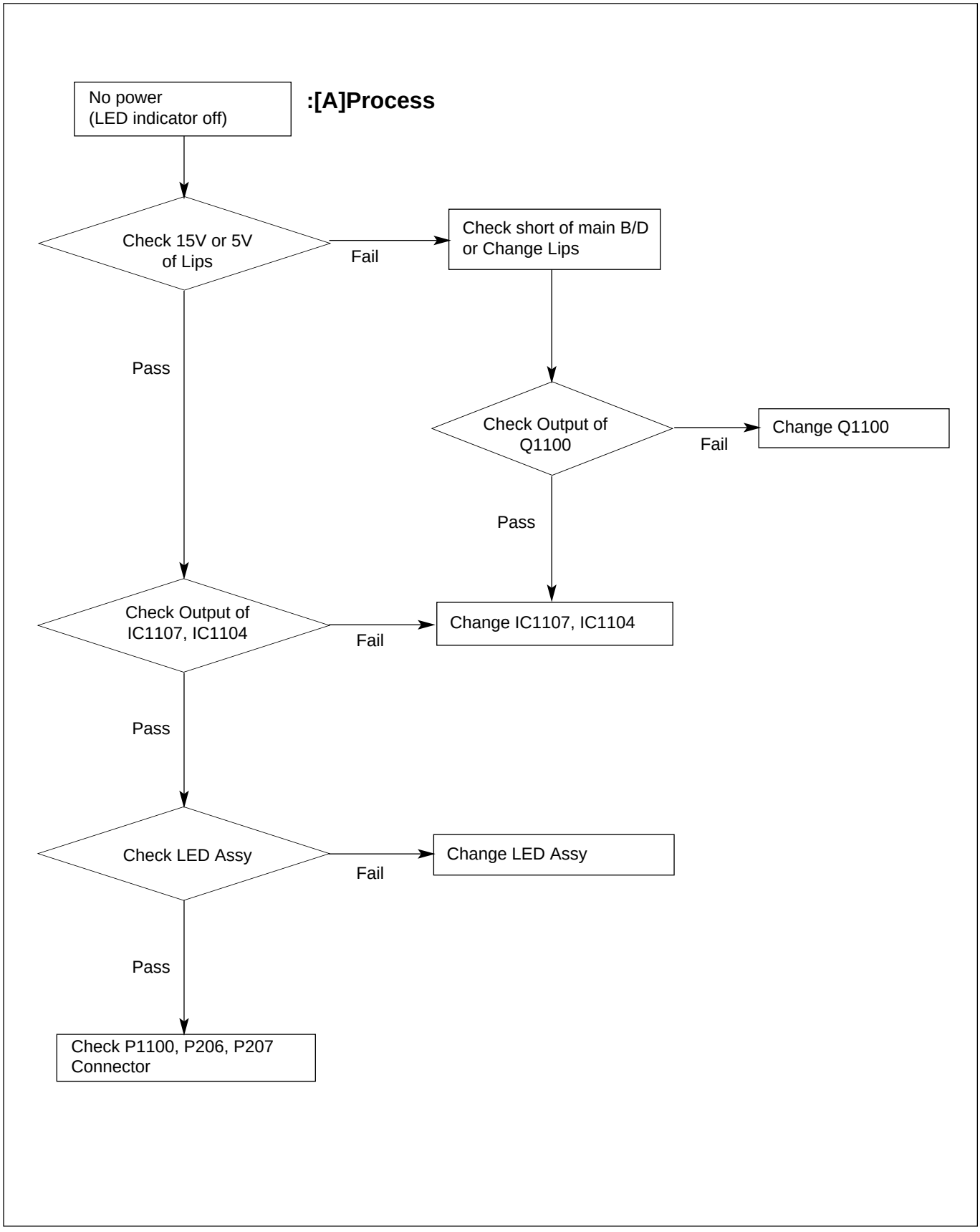
¡Æ Set the input mode of Set to PC.

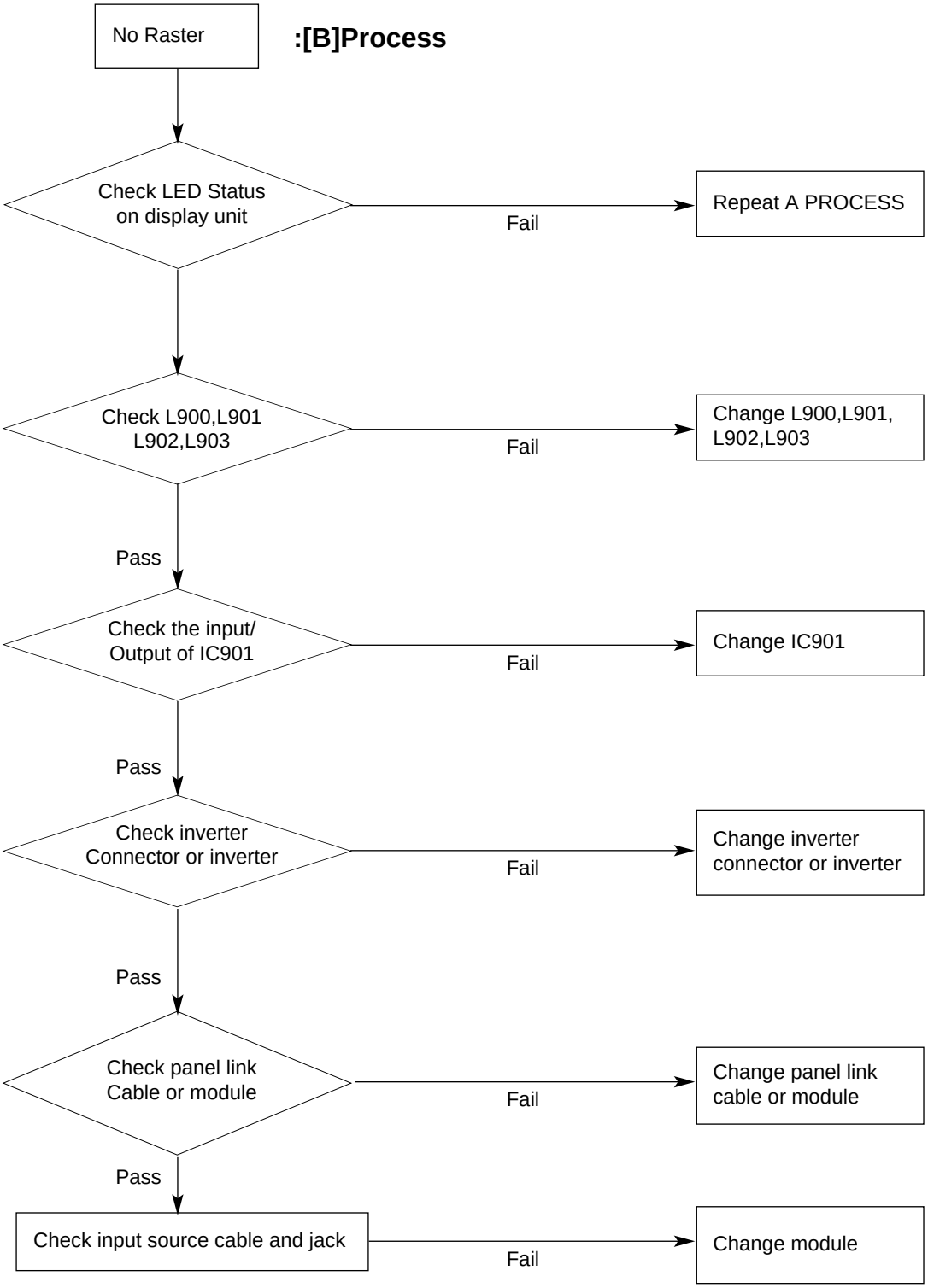
¡Æ Connect the DDC automation equipment to write DDC data.

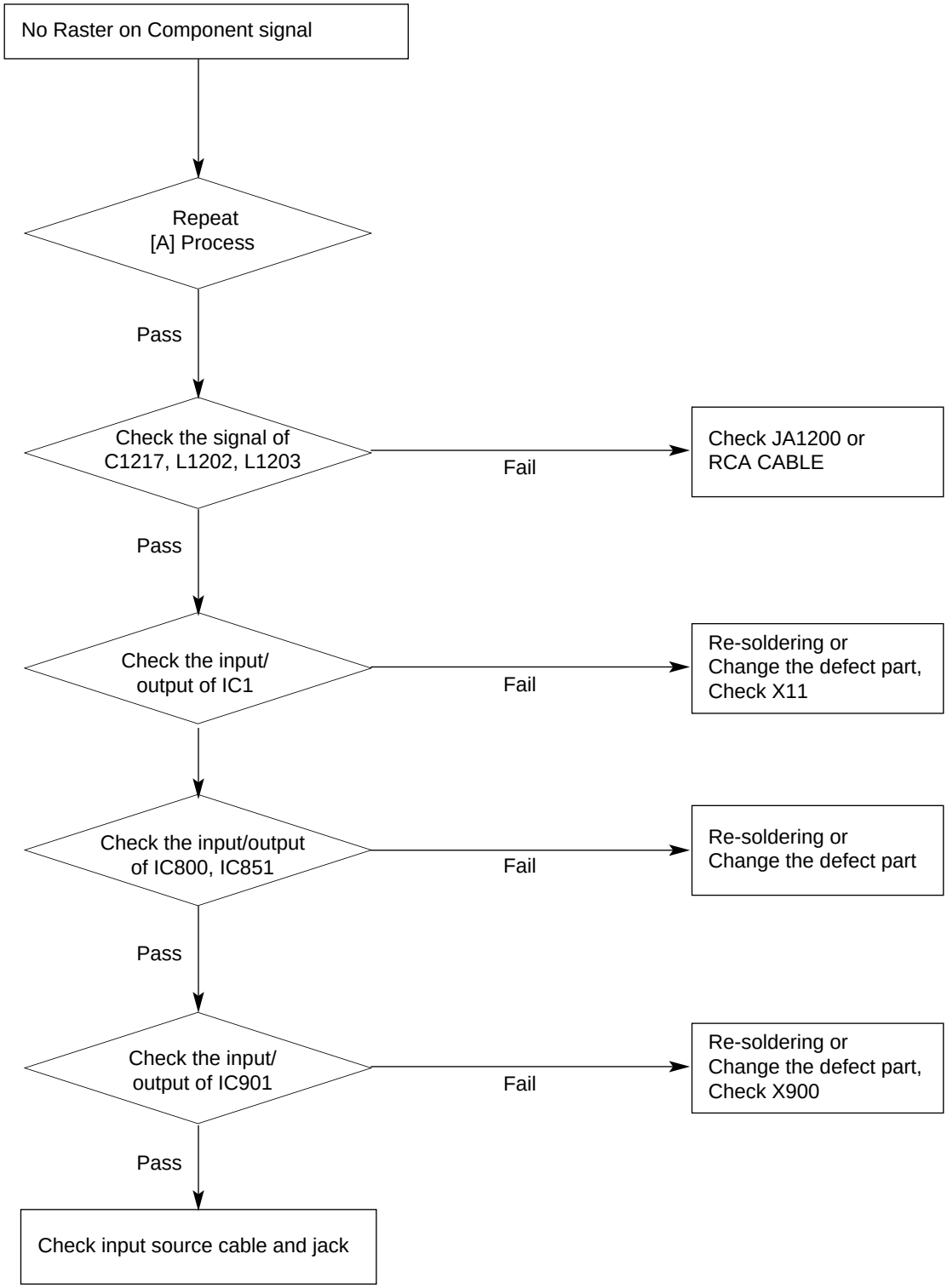
2.3.1 EDID DATA

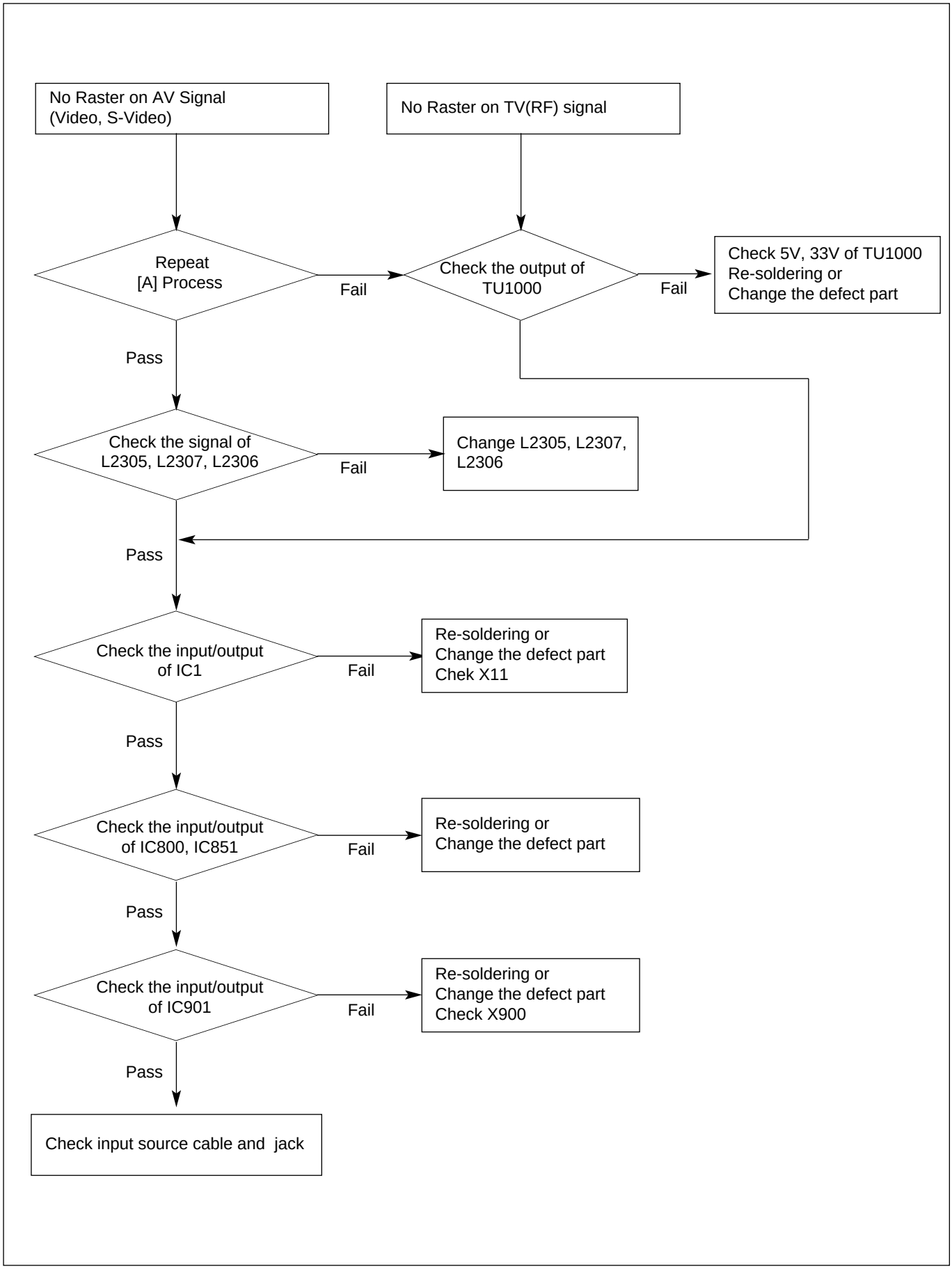
	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	85	43	67	2B	00	00
10	0B	0E	01	03	20	39	21	78	EE	1D	32	A2	57	47	9A	25
20	11	4A	4D	A5	CE	00	61	4F	45	4A	31	4F	01	01	01	01
30	01	01	01	01	01	01	0E	1F	00	80	51	00	1E	30	40	80
40	37	00	74	DF	10	00	00	1E	00	00	00	FD	00	38	4B	1F
50	41	09	00	0A	20	20	20	20	20	20	00	00	00	FC	00	54
60	31	37	4C	43	31	30	44	20	20	20	20	20	00	00	00	FC
70	00	0A	20	20	20	20	20	20	20	20	20	20	20	20	00	69

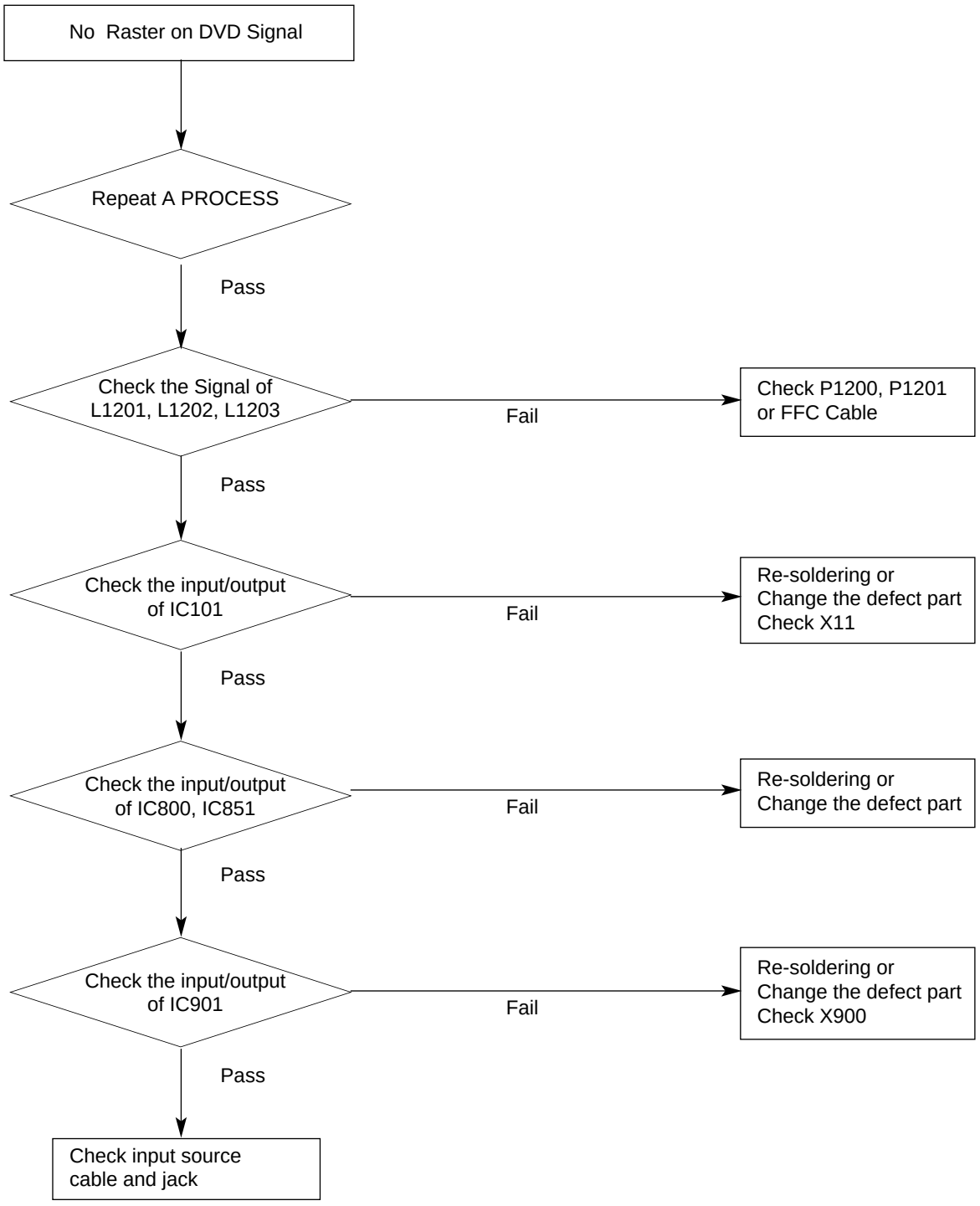
TROUBLESHOOTING

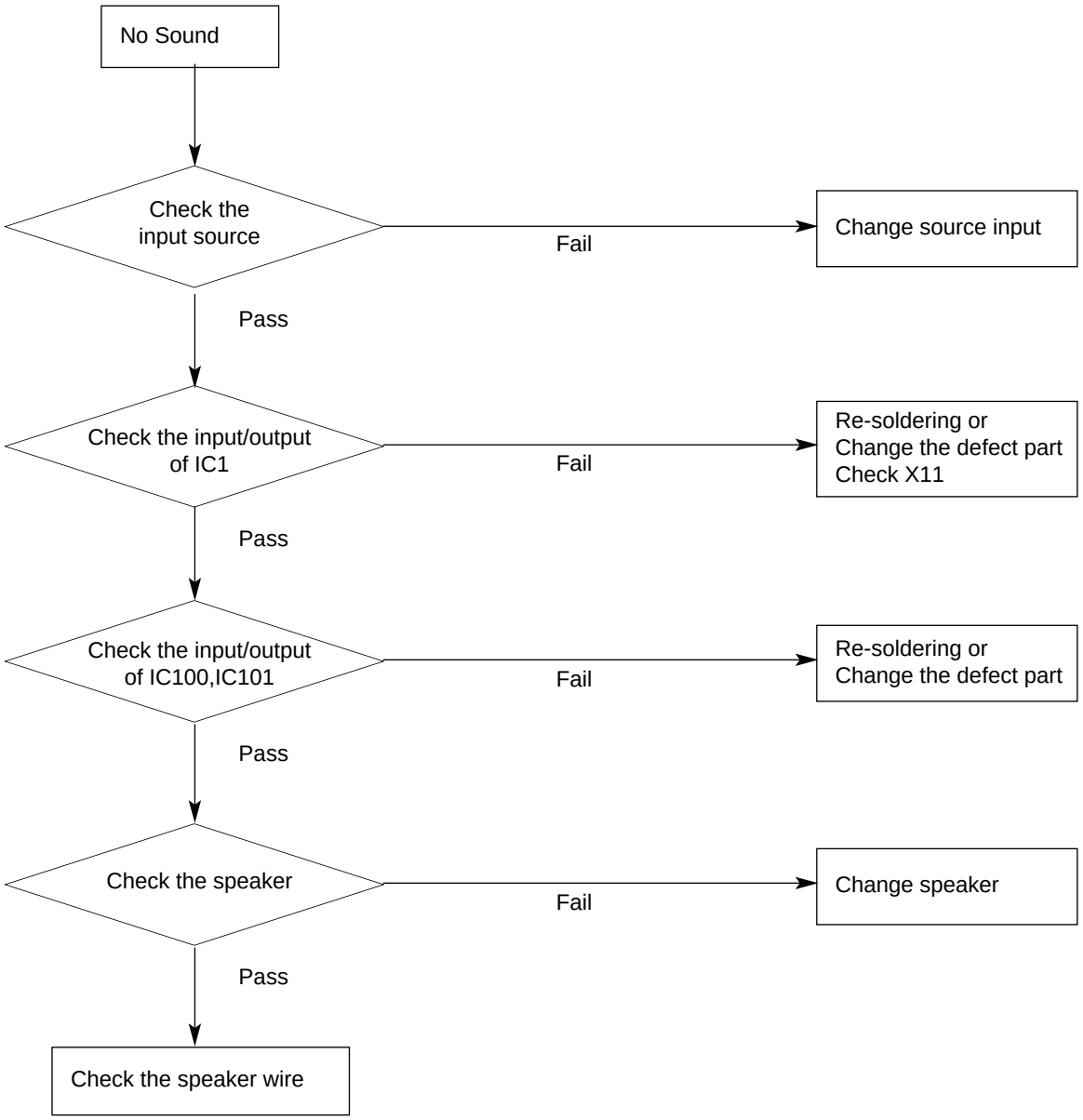



No Raster
:[B]Process
Check LED Status on display unit
Fail
Repeat A PROCESS
Check L900,L901 L902,L903
Fail
Change L900,L901, L902,L903
Pass
Check the input/ Output of IC901
Fail
Change IC901
Pass
Check inverter Connector or inverter
Fail
Change inverter connector or inverter
Pass
Check panel link Cable or module
Fail
Change panel link cable or module
Pass
Check input source cable and jack
Fail
Change module

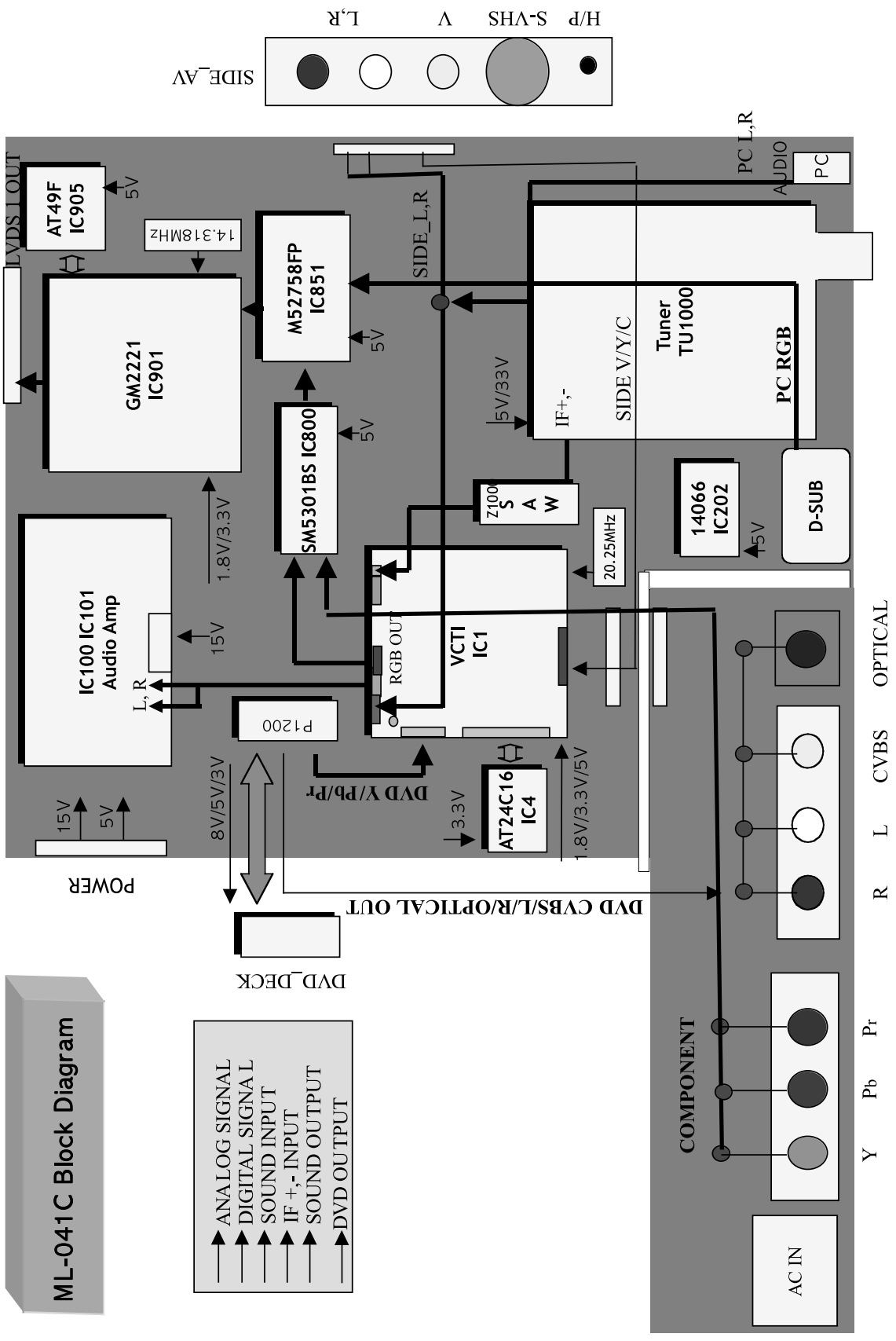

No Raster on Component signal
Repeat
[A] Process
Pass
Check the signal of
C1217, L1202, L1203
Fail
Check JA1200 or
RCA CABLE
Pass
Check the input/
output of IC1
Fail
Re-soldering or
Change the defect part,
Check X11
Check the input/output
of IC800, IC851
Fail
Re-soldering or
Change the defect part
Pass
Check the input/
output of IC901
Fail
Re-soldering or
Change the defect part,
Check X900
Pass
Check input source cable and jack


No Raster on AV Signal
(Video, S-Video)
No Raster on TV(RF) signal
Repeat
[A] Process
Fail
Check the output of
TU1000
Fail
Check 5V, 33V of TU1000
Re-soldering or
Change the defect part
Pass
Check the signal of
L2305, L2307, L2306
Fail
Change L2305, L2307,
L2306
Pass
Check the input/output
of IC1
Fail
Re-soldering or
Change the defect part
Chek X11
Pass
Check the input/output
of IC800, IC851
Fail
Re-soldering or
Change the defect part
Pass
Check the input/output
of IC901
Fail
Re-soldering or
Change the defect part
Check X900
Pass
Check input source cable and jack


No Raster on DVD Signal
Repeat A PROCESS
Pass
Check the Signal of L1201, L1202, L1203
Fail
Check P1200, P1201 or FFC Cable
Pass
Check the input/output of IC101
Fail
Re-soldering or Change the defect part Check X11
Pass
Check the input/output of IC800, IC851
Fail
Re-soldering or Change the defect part
Pass
Check the input/output of IC901
Fail
Re-soldering or Change the defect part Check X900
Pass
Check input source cable and jack


No Sound
Check the input source
Fail
Change source input
Pass
Check the input/output of IC1
Fail
Re-soldering or Change the defect part Check X11
Pass
Check the input/output of IC100,IC101
Fail
Re-soldering or Change the defect part
Pass
Check the speaker
Fail
Change speaker
Pass
Check the speaker wire

BLOCK DIAGRAM



BLOCK DIAGRAM DESCRIPTION

1. Video Controller Unit & Display Data Conversion Unit

The video controller unit receives the video signals inputted through the tuner, DVD, AV port (Video, S-Video,component), and converts them into an analog RGB signal through the microcomputer (VCTI) combined with the video decoder that integrates various functions in one chip.

Either the analog RGB, component YPbPr or PC RGB signal is selected by the switching IC and inputted to ascaler (GM2221), which is sent to the LCD module after being modified to an LVDS signal through the integrated LVDS IC.

Or, it is sent to the LCD module as a TTL output.

VCTi is the main microprocessor that handles video signal processing and sound signal processing.

It alsomanages the RF signals received from the tuner.

The scaler can control timing to fit into the LCD panel, and can also control the size and position of the input signal.

2. Power Supply Unit

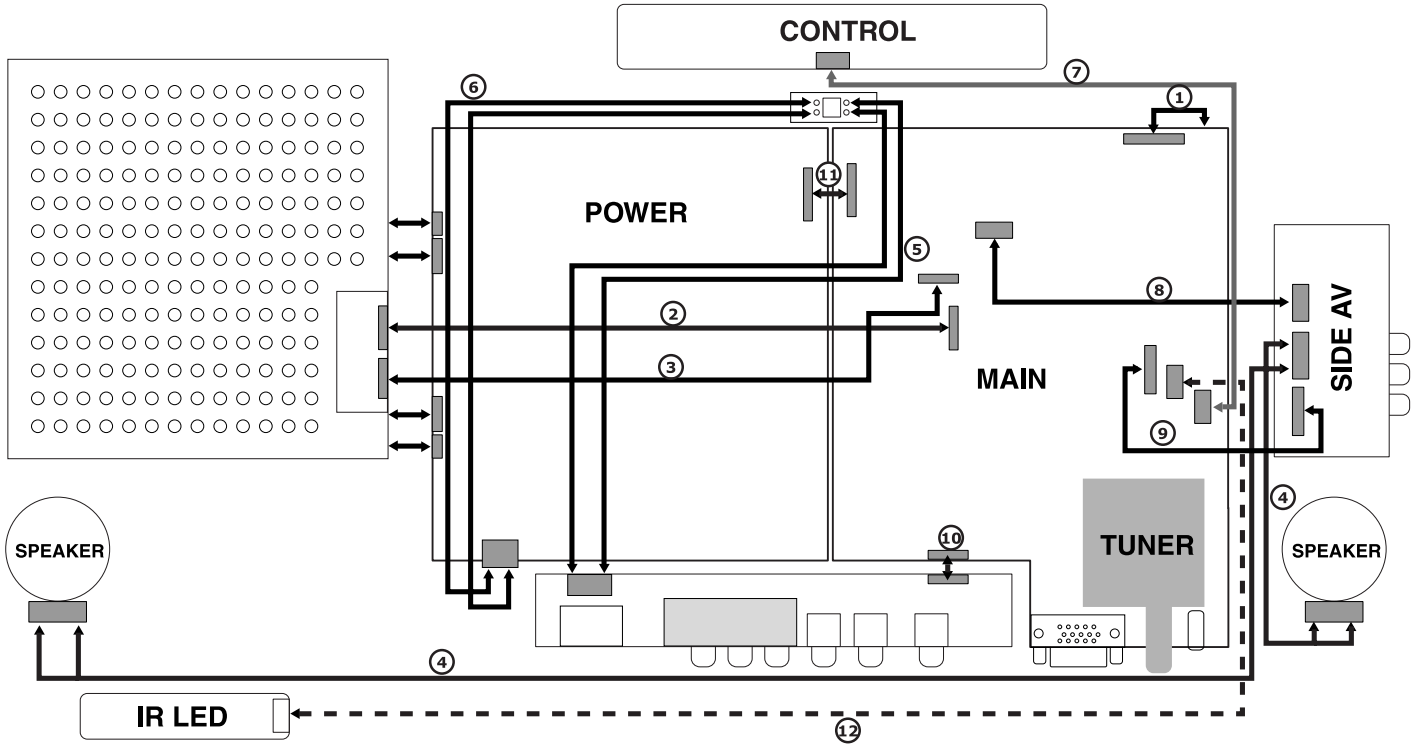
The power supply unit provides 15V and 5V DC power to the mainboard.

The PWM Step-Up DC/DC Converter circuit is used to generate the 33V used for the tuner.

15V power is directly used by the sound amplifier IC and is also used to generate 5V power through the regulator.

12V power is used for the LCD panel power, and 5V power is converted to 3.3V and 1.8V power through the regulator, which in turn supplies electrical power for ICs such as VCTI and scaler.

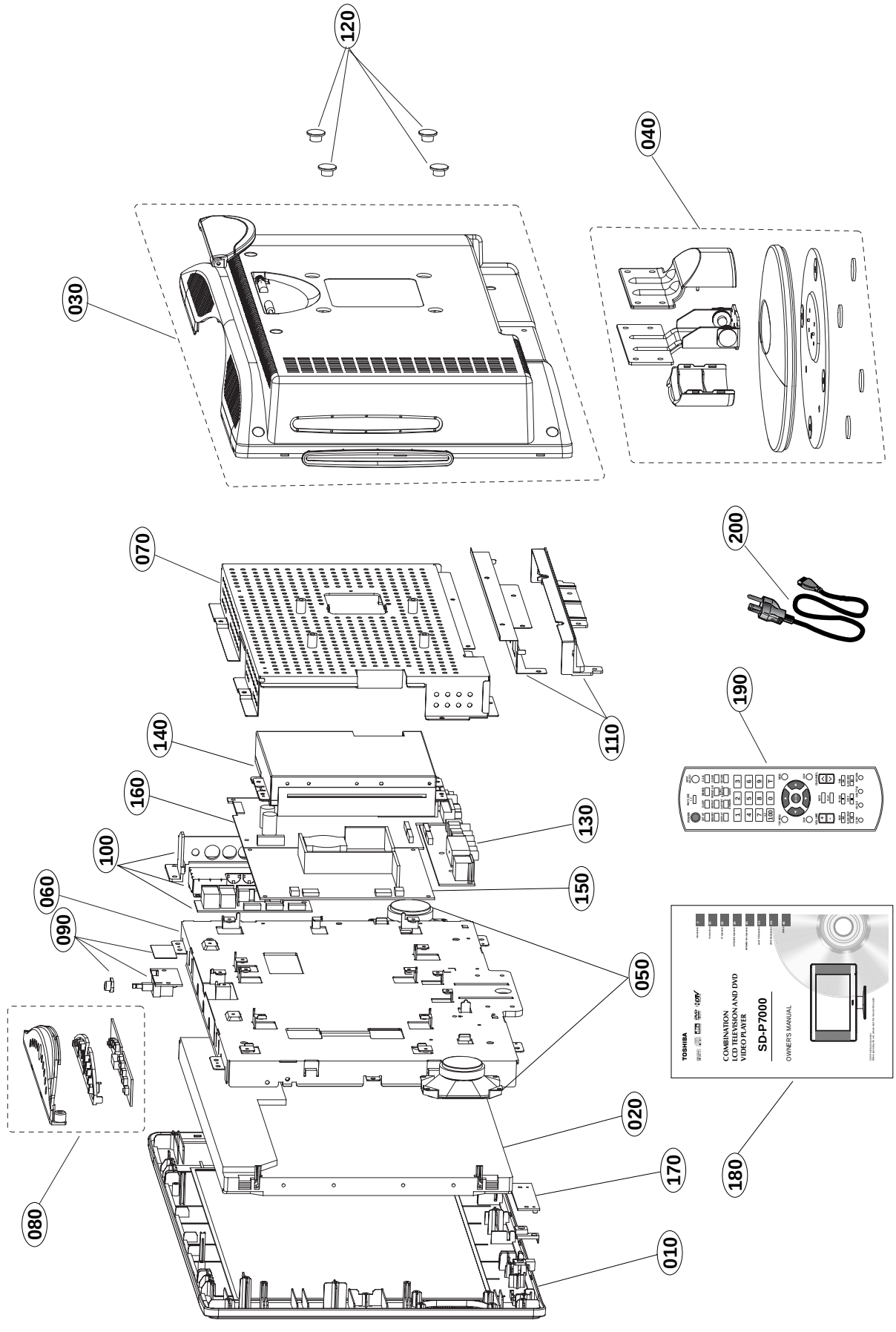
WIRING DIAGRAM



Wiring Part List

No.	Part No.
1	6631T11012R - 20P
2	6631T11017T - 28P
3	6631T12006D - 8P
4	6631T25024C - 5P
5	6631T39001L - 4P
6	6631T39001L - 3P
7	6631T20028N - 4P
8	6631T25023C - 4P
9	6631T20036B - 9P, 10P
10	6631T11017R - 18P
11	6631T20028P - 11P, 12P
12	6631T20033X - 5P

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	LG PART NO.	TOSHIBA PART NO.	DESCRIPTION
010	3091TKC126A	AF500146	CABINET ASSEMBLY, T17LC10D TOSHIBA 3090TKC094A
020	6306V17001C	AF500169	LCD(LIQUID CRYSTAL DISPLAY), LC171W03-A4K4 LG PHILPS TFT COLOR
030	3809TKC062A	AF500155	BACK COVER ASSEMBLY, T17LC10D 3808TKC052A TOSHIBA
040	3043TKK198A	AF500145	TILT SWIVEL ASSEMBLY, T17LC10D TOSHIBA
050	6401TZZ058A	AF500171	SPEAKER ASSEMBLY, T17LC10D SPEAKER ASSY
060	4951TKS172A	AF500162	METAL ASSEMBLY, FRAME MAIN(T17LC10D)
070	4950TKS314A	AF500194	METAL, FRAME REAR(TOSHIBA 17 INCH)
080	6871TST722A	AF500189	PWB(PCB) ASSEMBLY,SUB, T17LC10D CONTROL KEY CONTROL TOTAL TOSHIBA ASSY
090	6871TST725A	AF500192	PWB(PCB) ASSEMBLY,SUB, T17LC10D POWER JACK CONTROL TOTAL TOSHIBA ASSY
100	6871TST724A	AF500191	PWB(PCB) ASSEMBLY,SUB, T17LC10D SIDE LED & P/SW TOTAL TOSHIBA ASSY
110	3551TKK541A	AF500152	COVER ASSEMBLY, T17LC10D REAR AV (TOSHIBA)
120	5040TKK037A	AF500163	RUBBER, COVER MOLDING T17LC10D
130	6871TST721A	AF500188	PWB(PCB) ASSEMBLY,SUB, T17LC10D REAL JACK INTERFACE TOTAL TOSHIBA ASSY
140	3911TKK808A	AF500195	PACKAGE ASSEMBLY, T17LC10D DVD ASSY
150	6871TPT280E	AF500187	PWB(PCB) ASSEMBLY,POWER, T17LC100 (TOSHIBA WIDE DVD) POWER TOTAL LIEN CHANG LIPS FOR 17" LPL
160	3313TN1022A	AF500147	MAIN TOTAL ASSEMBLY, T17LC10D TOSHIBA ML041C
170	6871TST723A	AF500190	PWB(PCB) ASSEMBLY,SUB, T17LC10D IR LED & P/SW TOTAL TOSHIBA ASSY
180	3871TZL317A	AF500156	OWNER'S MANUAL(PRINTING PART ASSEMBLY), KIT, T17LC10D AAPTTA SD-P7000 TOSHIBA EN/FR(2)
190	6710T00014A	AF500186	REMOTE CONTROLLER T17LC10D, SMK, SE-R0130, SSR51-ML, SD-P7000, TSB OEM
200	6410TUW009A	AF500172	POWER CORD, LP-11W+LS-7 CWA LONGWELL UL/CSA 1870MM 2POLE WALL CD/PB FREE BLACK

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN, CH : Ceramic CQ : Polyestor CE : Electrolytic CF : Fixed Film	RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RH : CHIP, Metal Glazed(Chip) RR : Drawing

TOSHIBA MODEL : SD-P7000

RUN DATE : 17-Nov-04

*S	*AL	LOC. NO.	TOSHIBAPART NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
	MAIN BOARD						
	CAPACITOR						
		C1008	AF500008	0CE227BF638	"CAPACITOR,AL.ELECTROLYTIC"	220U KME 16V M FM5 TP5	
		C1101	AF500009	0CE227BH638	"CAPACITOR,AL.ELECTROLYTIC"	220U KME 25V M FM5 TP5	
		C1104	AF500009	0CE227BH638	"CAPACITOR,AL.ELECTROLYTIC"	220U KME 25V M FM5 TP5	
		C1107	AF500018	0CE477BH618	"CAPACITOR,AL.ELECTROLYTIC"	470UF KME TYPE 25V M FL TP 5	
		C1136	AF500018	0CE477BH618	"CAPACITOR,AL.ELECTROLYTIC"	470UF KME TYPE 25V M FL TP 5	
		C1140	AF500009	0CE227BH638	"CAPACITOR,AL.ELECTROLYTIC"	220U KME 25V M FM5 TP5	
		C1152	AF500006	0CE107BK638	"CAPACITOR,AL.ELECTROLYTIC"	100UF KME 50V M FM5 TP5	
		C1229	AF500008	0CE227BF638	"CAPACITOR,AL.ELECTROLYTIC"	220U KME 16V M FM5 TP5	
		C123	AF500018	0CE477BH618	"CAPACITOR,AL.ELECTROLYTIC"	470UF KME TYPE 25V M FL TP 5	
		C124	AF500018	0CE477BH618	"CAPACITOR,AL.ELECTROLYTIC"	470UF KME TYPE 25V M FL TP 5	
		C131	AF500018	0CE477BH618	"CAPACITOR,AL.ELECTROLYTIC"	470UF KME TYPE 25V M FL TP 5	
		C132	AF500018	0CE477BH618	"CAPACITOR,AL.ELECTROLYTIC"	470UF KME TYPE 25V M FL TP 5	
		C133	AF500018	0CE477BH618	"CAPACITOR,AL.ELECTROLYTIC"	470UF KME TYPE 25V M FL TP 5	
		C134	AF500018	0CE477BH618	"CAPACITOR,AL.ELECTROLYTIC"	470UF KME TYPE 25V M FL TP 5	
		C11	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C1150	AF500023	0CH3105F946	"CAPACITOR,CHIP[CERAMIC LD"	1UF 16V Z F 2012 R/TP	
		C1151	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C1208	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C1209	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C1210	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C1211	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C1213	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C1220	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C1228	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C127	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C128	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C135	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C136	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C15	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C16	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C19	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C203	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C4	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C41	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C44	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C49	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C6	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C804	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C816	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C851	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C854	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C855	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C858	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C861	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C863	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	

*S	*AL	LOC. NO.	TOSHIBAPART NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C865	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C866	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C867	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C869	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C871	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C874	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C875	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C877	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C909	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C910	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C917	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C920	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C925	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C926	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C927	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C928	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C929	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C930	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C934	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C935	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C936	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C937	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C938	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C939	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C940	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C943	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C944	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C945	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C946	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C947	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C948	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C949	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C950	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C956	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C964	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C965	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C967	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C968	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C970	AF500022	0CH3104K946	"CAPACITOR,CHIP[CERAMIC LD"	100000PF 50V Z F 2012 R/TP	
		C1200	AF500030	0CH6221K416	"CAPACITOR,CHIP[CERAMIC LD"	220PF 50V J NP0 2012 R/TP	
		C1201	AF500030	0CH6221K416	"CAPACITOR,CHIP[CERAMIC LD"	220PF 50V J NP0 2012 R/TP	
		C1202	AF500030	0CH6221K416	"CAPACITOR,CHIP[CERAMIC LD"	220PF 50V J NP0 2012 R/TP	
		C1203	AF500030	0CH6221K416	"CAPACITOR,CHIP[CERAMIC LD"	220PF 50V J NP0 2012 R/TP	
		C1204	AF500030	0CH6221K416	"CAPACITOR,CHIP[CERAMIC LD"	220PF 50V J NP0 2012 R/TP	
		C1205	AF500030	0CH6221K416	"CAPACITOR,CHIP[CERAMIC LD"	220PF 50V J NP0 2012 R/TP	
		C1206	AF500028	0CH6150K416	"CAPACITOR,CHIP[CERAMIC LD"	15PF 50V J NP0 2012 R/TP	
		C1207	AF500028	0CH6150K416	"CAPACITOR,CHIP[CERAMIC LD"	15PF 50V J NP0 2012 R/TP	
		C1227	AF500026	0CH6101K416	"CAPACITOR,CHIP[CERAMIC LD"	100PF 50V J NP0 2012 R/TP	
		C1238	AF500031	0CH6331K416	"CAPACITOR,CHIP[CERAMIC LD"	330PF 50V J NP0 2012 R/TP	
		C1239	AF500029	0CH6151K416	"CAPACITOR,CHIP[CERAMIC LD"	150PF 50V J NP0 2012 R/TP	
		C1240	AF500029	0CH6151K416	"CAPACITOR,CHIP[CERAMIC LD"	150PF 50V J NP0 2012 R/TP	
		C1241	AF500031	0CH6331K416	"CAPACITOR,CHIP[CERAMIC LD"	330PF 50V J NP0 2012 R/TP	
		C13	AF500027	0CH6102K406	"CAPACITOR,CHIP[CERAMIC LD"	1000PF 50V J SL 2012 R/TP	
		C14	AF500027	0CH6102K406	"CAPACITOR,CHIP[CERAMIC LD"	1000PF 50V J SL 2012 R/TP	
		C2	AF500027	0CH6102K406	"CAPACITOR,CHIP[CERAMIC LD"	1000PF 50V J SL 2012 R/TP	
		C20	AF500027	0CH6102K406	"CAPACITOR,CHIP[CERAMIC LD"	1000PF 50V J SL 2012 R/TP	
		C21	AF500027	0CH6102K406	"CAPACITOR,CHIP[CERAMIC LD"	1000PF 50V J SL 2012 R/TP	

*S	*AL	LOC. NO.	TOSHIBAPART NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C46	AF500027	0CH6102K406	"CAPACITOR,CHIP[CERAMIC LD"	1000PF 50V J SL 2012 R/TP	
		C50	AF500027	0CH6102K406	"CAPACITOR,CHIP[CERAMIC LD"	1000PF 50V J SL 2012 R/TP	
		C53	AF500027	0CH6102K406	"CAPACITOR,CHIP[CERAMIC LD"	1000PF 50V J SL 2012 R/TP	
		C59	AF500027	0CH6102K406	"CAPACITOR,CHIP[CERAMIC LD"	1000PF 50V J SL 2012 R/TP	
		C7	AF500030	0CH6221K416	"CAPACITOR,CHIP[CERAMIC LD"	220PF 50V J NP0 2012 R/TP	
		C8	AF500030	0CH6221K416	"CAPACITOR,CHIP[CERAMIC LD"	220PF 50V J NP0 2012 R/TP	
		C9	AF500030	0CH6221K416	"CAPACITOR,CHIP[CERAMIC LD"	220PF 50V J NP0 2012 R/TP	
		C923	AF500025	0CH6080K116	"CAPACITOR,CHIP[CERAMIC LD"	8PF 50V D NP0 2012 R/TP	
		C924	AF500025	0CH6080K116	"CAPACITOR,CHIP[CERAMIC LD"	8PF 50V D NP0 2012 R/TP	
		C129	AF500139	181-007F	"CAPACITOR,DRAWING"	"MPE ECQ-V1H224JL3(TR), 50V 0"	
		C130	AF500139	181-007F	"CAPACITOR,DRAWING"	"MPE ECQ-V1H224JL3(TR), 50V 0"	
		C1007	AF500020	0CH3103K516	"CAPACITOR,FIXED CERAMIC(H"	10000PF 50V 10% B(Y5P) 2012	
		C1010	AF500040	0CK273DK51A	"CAPACITOR,FIXED CERAMIC(H"	27000PF 2012 50V 10% B(Y5P)	
		C1015	AF500024	0CH5390K416	"CAPACITOR,FIXED CERAMIC(H"	39PF 50V 5% NP0 2012 R/TP	
		C1016	AF500024	0CH5390K416	"CAPACITOR,FIXED CERAMIC(H"	39PF 50V 5% NP0 2012 R/TP	
		C107	AF500039	0CK225DFK4A	"CAPACITOR,FIXED CERAMIC(H"	"2.2UF 2012 16V 20%,-20% F(Y5"	
		C109	AF500020	0CH3103K516	"CAPACITOR,FIXED CERAMIC(H"	10000PF 50V 10% B(Y5P) 2012	
		C110	AF500020	0CH3103K516	"CAPACITOR,FIXED CERAMIC(H"	10000PF 50V 10% B(Y5P) 2012	
		C113	AF500039	0CK225DFK4A	"CAPACITOR,FIXED CERAMIC(H"	"2.2UF 2012 16V 20%,-20% F(Y5"	
		C1212	AF500020	0CH3103K516	"CAPACITOR,FIXED CERAMIC(H"	10000PF 50V 10% B(Y5P) 2012	
		C1222	AF500020	0CH3103K516	"CAPACITOR,FIXED CERAMIC(H"	10000PF 50V 10% B(Y5P) 2012	
		C1226	AF500020	0CH3103K516	"CAPACITOR,FIXED CERAMIC(H"	10000PF 50V 10% B(Y5P) 2012	
		C70	AF500039	0CK225DFK4A	"CAPACITOR,FIXED CERAMIC(H"	"2.2UF 2012 16V 20%,-20% F(Y5"	
		C71	AF500039	0CK225DFK4A	"CAPACITOR,FIXED CERAMIC(H"	"2.2UF 2012 16V 20%,-20% F(Y5"	
		C72	AF500039	0CK225DFK4A	"CAPACITOR,FIXED CERAMIC(H"	"2.2UF 2012 16V 20%,-20% F(Y5"	
		C900	AF500020	0CH3103K516	"CAPACITOR,FIXED CERAMIC(H"	10000PF 50V 10% B(Y5P) 2012	
		C902	AF500020	0CH3103K516	"CAPACITOR,FIXED CERAMIC(H"	10000PF 50V 10% B(Y5P) 2012	
		C1001	AF500035	0CK103CK51A	"CAPACITOR,FIXED CERAMIC(H"	0.01UF 1608 50V 10% R/TP B(Y	
		C1002	AF500035	0CK103CK51A	"CAPACITOR,FIXED CERAMIC(H"	0.01UF 1608 50V 10% R/TP B(Y	
		C1003	AF500035	0CK103CK51A	"CAPACITOR,FIXED CERAMIC(H"	0.01UF 1608 50V 10% R/TP B(Y	
		C1004	AF500035	0CK103CK51A	"CAPACITOR,FIXED CERAMIC(H"	0.01UF 1608 50V 10% R/TP B(Y	
		C1005	AF500035	0CK103CK51A	"CAPACITOR,FIXED CERAMIC(H"	0.01UF 1608 50V 10% R/TP B(Y	
		C114	AF500039	0CK225DFK4A	"CAPACITOR,FIXED CERAMIC(H"	"2.2UF 2012 16V 20%,-20% F(Y5"	
		C115	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C116	AF500042	0CK562CK51A	"CAPACITOR,FIXED CERAMIC(H"	5600PF 1608 50V 10% R/TP B(Y	
		C117	AF500042	0CK562CK51A	"CAPACITOR,FIXED CERAMIC(H"	5600PF 1608 50V 10% R/TP B(Y	
		C118	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C12	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C125	AF500038	0CK105EK56A	"CAPACITOR,FIXED CERAMIC(H"	1UF 3216 50V 10% X7R R/TP	
		C126	AF500038	0CK105EK56A	"CAPACITOR,FIXED CERAMIC(H"	1UF 3216 50V 10% X7R R/TP	
		C200	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C22	AF500043	0CK822CK56A	"CAPACITOR,FIXED CERAMIC(H"	8200PF 1608 50V 10% X7R R/TP	
		C23	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C24	AF500043	0CK822CK56A	"CAPACITOR,FIXED CERAMIC(H"	8200PF 1608 50V 10% X7R R/TP	
		C26	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C27	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C28	AF500041	0CK334CF94A	"CAPACITOR,FIXED CERAMIC(H"	"0.33UF 1608 16V 80%,-20% F(Y"	
		C29	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C3	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C30	AF500041	0CK334CF94A	"CAPACITOR,FIXED CERAMIC(H"	"0.33UF 1608 16V 80%,-20% F(Y"	
		C31	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C32	AF500041	0CK334CF94A	"CAPACITOR,FIXED CERAMIC(H"	"0.33UF 1608 16V 80%,-20% F(Y"	
		C33	AF500041	0CK334CF94A	"CAPACITOR,FIXED CERAMIC(H"	"0.33UF 1608 16V 80%,-20% F(Y"	
		C35	AF500041	0CK334CF94A	"CAPACITOR,FIXED CERAMIC(H"	"0.33UF 1608 16V 80%,-20% F(Y"	
		C36	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C37	AF500041	0CK334CF94A	"CAPACITOR,FIXED CERAMIC(H"	"0.33UF 1608 16V 80%,-20% F(Y"	
		C38	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	

*S	*AL	LOC. NO.	TOSHIBAPART NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C39	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C40	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C42	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C45	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C52	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C67	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C75	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C800	AF500037	0CK105CF94A	"CAPACITOR,FIXED CERAMIC(H"	"1UF 1608 16V 80%,-20% R/TP F"	
		C801	AF500037	0CK105CF94A	"CAPACITOR,FIXED CERAMIC(H"	"1UF 1608 16V 80%,-20% R/TP F"	
		C802	AF500037	0CK105CF94A	"CAPACITOR,FIXED CERAMIC(H"	"1UF 1608 16V 80%,-20% R/TP F"	
		C803	AF500037	0CK105CF94A	"CAPACITOR,FIXED CERAMIC(H"	"1UF 1608 16V 80%,-20% R/TP F"	
		C807	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C808	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C810	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C811	AF500037	0CK105CF94A	"CAPACITOR,FIXED CERAMIC(H"	"1UF 1608 16V 80%,-20% R/TP F"	
		C812	AF500037	0CK105CF94A	"CAPACITOR,FIXED CERAMIC(H"	"1UF 1608 16V 80%,-20% R/TP F"	
		C82	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C901	AF500035	0CK103CK51A	"CAPACITOR,FIXED CERAMIC(H"	0.01UF 1608 50V 10% R/TP B(Y	
		C903	AF500035	0CK103CK51A	"CAPACITOR,FIXED CERAMIC(H"	0.01UF 1608 50V 10% R/TP B(Y	
		C904	AF500035	0CK103CK51A	"CAPACITOR,FIXED CERAMIC(H"	0.01UF 1608 50V 10% R/TP B(Y	
		C905	AF500035	0CK103CK51A	"CAPACITOR,FIXED CERAMIC(H"	0.01UF 1608 50V 10% R/TP B(Y	
		C906	AF500035	0CK103CK51A	"CAPACITOR,FIXED CERAMIC(H"	0.01UF 1608 50V 10% R/TP B(Y	
		C911	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C912	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C913	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C914	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C915	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C916	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C918	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C919	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C921	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C922	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		C961	AF500036	0CK104CK56A	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 1608 50V 10% R/TP X7R	
		R81	AF500039	0CK225DFK4A	"CAPACITOR,FIXED CERAMIC(H"	"2.2UF 2012 16V 20%,-20% F(Y5"	
		R83	AF500039	0CK225DFK4A	"CAPACITOR,FIXED CERAMIC(H"	"2.2UF 2012 16V 20%,-20% F(Y5"	
		C121	AF500001	0CC100CK41A	"CAPACITOR,FIXED CERAMIC(T"	10PF 1608 50V 5% R/TP NP0	
		C122	AF500001	0CC100CK41A	"CAPACITOR,FIXED CERAMIC(T"	10PF 1608 50V 5% R/TP NP0	
		C43	AF500002	0CC102CK41A	"CAPACITOR,FIXED CERAMIC(T"	1000PF 1608 50V 5% R/TP NP0	
		C47	AF500003	0CC220CK41A	"CAPACITOR,FIXED CERAMIC(T"	22PF 1608 50V 5% R/TP NP0	
		C48	AF500003	0CC220CK41A	"CAPACITOR,FIXED CERAMIC(T"	22PF 1608 50V 5% R/TP NP0	
		C56	AF500004	0CC221CK41A	"CAPACITOR,FIXED CERAMIC(T"	220PF 1608 50V 5% R/TP NP0	
		C57	AF500004	0CC221CK41A	"CAPACITOR,FIXED CERAMIC(T"	220PF 1608 50V 5% R/TP NP0	
		C58	AF500004	0CC221CK41A	"CAPACITOR,FIXED CERAMIC(T"	220PF 1608 50V 5% R/TP NP0	
		C74	AF500002	0CC102CK41A	"CAPACITOR,FIXED CERAMIC(T"	1000PF 1608 50V 5% R/TP NP0	
		C83	AF500002	0CC102CK41A	"CAPACITOR,FIXED CERAMIC(T"	1000PF 1608 50V 5% R/TP NP0	
		C85	AF500002	0CC102CK41A	"CAPACITOR,FIXED CERAMIC(T"	1000PF 1608 50V 5% R/TP NP0	
		C86	AF500002	0CC102CK41A	"CAPACITOR,FIXED CERAMIC(T"	1000PF 1608 50V 5% R/TP NP0	
		C88	AF500005	0CC390CK41A	"CAPACITOR,FIXED CERAMIC(T"	39PF 1608 50V 5% R/TP NP0	
		C89	AF500005	0CC390CK41A	"CAPACITOR,FIXED CERAMIC(T"	39PF 1608 50V 5% R/TP NP0	
		C1106	AF500016	0CE477BD618	"CAPACITOR,FIXED ELECTROLY"	470UF KME TYPE 10V 20% FL TP	
		C1124	AF500016	0CE477BD618	"CAPACITOR,FIXED ELECTROLY"	470UF KME TYPE 10V 20% FL TP	
		C1	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C108	AF500015	0CE476WF6DC	"CAPACITOR,FIXED ELECTROLY"	47UF MVK 16V 20% R/TP(SMD) S	
		C1102	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C1103	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C1105	AF500034	0CH8476F691	"CAPACITOR,FIXED ELECTROLY"	47UF 16V 20% 105STD (CYL) R/	
		C1109	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	

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		C111	AF500013	0CE475WJ6DC	"CAPACITOR,FIXED ELECTROLY"	4.7UF MVK 35V 20% R/TP(SMD)	
		C1118	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C112	AF500013	0CE475WJ6DC	"CAPACITOR,FIXED ELECTROLY"	4.7UF MVK 35V 20% R/TP(SMD)	
		C1130	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C1132	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C1134	AF500010	0CE227WF6DC	"CAPACITOR,FIXED ELECTROLY"	220UF MVK 16V 20% R/TP(SMD)	
		C1135	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C1137	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C119	AF500033	0CH8106F691	"CAPACITOR,FIXED ELECTROLY"	10UF 16V 20% 105STD (CYL) R/	
		C120	AF500033	0CH8106F691	"CAPACITOR,FIXED ELECTROLY"	10UF 16V 20% 105STD (CYL) R/	
		C1216	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C1218	AF500011	0CE337WH6DC	"CAPACITOR,FIXED ELECTROLY"	330UF MVK 25V 20% R/TP(SMD)	
		C1219	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C1221	AF500014	0CE476VH6DC	"CAPACITOR,FIXED ELECTROLY"	47UF MV 25V 20% R/TP(SMD) SM	
		C1223	AF500019	0CE477WF6DC	"CAPACITOR,FIXED ELECTROLY"	470UF MVK 16V 20% SMD R/TP(S	
		C1225	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C1250	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C1251	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C1266	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C17	AF500013	0CE475WJ6DC	"CAPACITOR,FIXED ELECTROLY"	4.7UF MVK 35V 20% R/TP(SMD)	
		C5	AF500013	0CE475WJ6DC	"CAPACITOR,FIXED ELECTROLY"	4.7UF MVK 35V 20% R/TP(SMD)	
		C55	AF500012	0CE475VK6DC	"CAPACITOR,FIXED ELECTROLY"	4.7UF MV 50V 20% R/TP(SMD) S	
		C563	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C60	AF500012	0CE475VK6DC	"CAPACITOR,FIXED ELECTROLY"	4.7UF MV 50V 20% R/TP(SMD) S	
		C852	AF500034	0CH8476F691	"CAPACITOR,FIXED ELECTROLY"	47UF 16V 20% 105STD (CYL) R/	
		C856	AF500034	0CH8476F691	"CAPACITOR,FIXED ELECTROLY"	47UF 16V 20% 105STD (CYL) R/	
		C859	AF500034	0CH8476F691	"CAPACITOR,FIXED ELECTROLY"	47UF 16V 20% 105STD (CYL) R/	
		C864	AF500034	0CH8476F691	"CAPACITOR,FIXED ELECTROLY"	47UF 16V 20% 105STD (CYL) R/	
		C868	AF500034	0CH8476F691	"CAPACITOR,FIXED ELECTROLY"	47UF 16V 20% 105STD (CYL) R/	
		C87	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		C873	AF500034	0CH8476F691	"CAPACITOR,FIXED ELECTROLY"	47UF 16V 20% 105STD (CYL) R/	
		C876	AF500033	0CH8106F691	"CAPACITOR,FIXED ELECTROLY"	10UF 16V 20% 105STD (CYL) R/	
		C888	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
	DIODEs						
		D100	AF500046	0DRFC00288A	"DIODE,RECTIFIERS"	SS14 FAIR CHILD R/TP SMA 20-	
		D101	AF500046	0DRFC00288A	"DIODE,RECTIFIERS"	SS14 FAIR CHILD R/TP SMA 20-	
		D1200	AF500045	0DR340009AA	"DIODE,RECTIFIERS"	MBRS340 TP FAIRCHILD NON 40V	
		D1150	AF500047	0DRGS00199A	"DIODE,RECTIFIERS"	UF4001 GENERAL SEMICONDUCTOR	
		D104	AF500048	0DS181009AA	"DIODE,SWITCHING"	KDS181 TP KEC SOT-23 80V 3	
		D103	AF500048	0DS181009AA	"DIODE,SWITCHING"	KDS181 TP KEC SOT-23 80V 3	
		D107	AF500049	0DS226009AA	"DIODE,SWITCHING"	KDS226 TP KEC SOT-23 80V 30	
		ZD104	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		ZD105	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		ZD201	AF500051	0DZ510009EE	"DIODE,ZENER"	UDZ S 5.1B TP ROHM-K SOD323	
		ZD202	AF500051	0DZ510009EE	"DIODE,ZENER"	UDZ S 5.1B TP ROHM-K SOD323	
		ZD203	AF500051	0DZ510009EE	"DIODE,ZENER"	UDZ S 5.1B TP ROHM-K SOD323	
		ZD204	AF500051	0DZ510009EE	"DIODE,ZENER"	UDZ S 5.1B TP ROHM-K SOD323	
		ZD205	AF500051	0DZ510009EE	"DIODE,ZENER"	UDZ S 5.1B TP ROHM-K SOD323	
		ZD207	AF500051	0DZ510009EE	"DIODE,ZENER"	UDZ S 5.1B TP ROHM-K SOD323	
		ZD208	AF500051	0DZ510009EE	"DIODE,ZENER"	UDZ S 5.1B TP ROHM-K SOD323	
		ZD209	AF500051	0DZ510009EE	"DIODE,ZENER"	UDZ S 5.1B TP ROHM-K SOD323	
		ZD211	AF500051	0DZ510009EE	"DIODE,ZENER"	UDZ S 5.1B TP ROHM-K SOD323	
		ZD1200	AF500051	0DZ510009EE	"DIODE,ZENER"	UDZ S 5.1B TP ROHM-K SOD323	
		ZD1201	AF500051	0DZ510009EE	"DIODE,ZENER"	UDZ S 5.1B TP ROHM-K SOD323	
		ZD200	AF500051	0DZ510009EE	"DIODE,ZENER"	UDZ S 5.1B TP ROHM-K SOD323	
		ZD206	AF500051	0DZ510009EE	"DIODE,ZENER"	UDZ S 5.1B TP ROHM-K SOD323	
		D1151	AF500050	0DZ330009DF	"DIODE,ZENERS"	MTZJ33B TP ROHM-K DO34 0.5W	

*S	*AL	LOC. NO.	TOSHIBAPART NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
	IC						
		IC905	AF500071	0IZZTSA024A	"IC,DRAWING"	T17LC10D FLASH ROM ASSY	
		IC3	AF500053	0IKE702700D	"IC,KEC"	"KIA7027AF 3, SOT-89 TP RESET"	
		IC200	AF500064	0IMMRSG036A	"IC,MEMORIES"	"M24C02-WMN6T SGS-THOMSON 8P,"	
		IC4	AF500054	0IMCRAL006A	"IC,MEMORIES"	AT24C16AN-10SI-2.7 ATMEL 8P	
		IC903	AF500054	0IMCRAL006A	"IC,MEMORIES"	AT24C16AN-10SI-2.7 ATMEL 8P	
		IC100	AF500060	0IMCRMZ002A	"IC,MICRO CONTROLLER"	MP7720 MONOLITHIC POWER SYST	
		IC101	AF500060	0IMCRMZ002A	"IC,MICRO CONTROLLER"	MP7720 MONOLITHIC POWER SYST	
		IC1103	AF500062	0IMCRNS007C	"IC,MICRO CONTROLLER"	LMS1587CS-ADJ NATIONAL SEMIC	
		IC1106	AF500062	0IMCRNS007C	"IC,MICRO CONTROLLER"	LMS1587CS-ADJ NATIONAL SEMIC	
		IC1114	AF500063	0IMCRNS007E	"IC,MICRO CONTROLLER"	LMS1587CS-3.3 NATIONAL SEMIC	
		IC1202	AF500061	0IMCRNS007A	"IC,MICRO CONTROLLER"	LM2940S 8V NATIONAL SEMICOND	
		IC1203	AF500059	0IMCRMZ001A	"IC,MICRO CONTROLLER"	MP1583DN MONOLITHIC POWER SY	
		IC851	AF500058	0IMCRMI006A	"IC,MICRO CONTROLLER"	"M52758FP MITSUBISHI 36PIN, R"	
		IC202	AF500065	0IMO140662A	"IC,MOTOROLA"	"MC14066BDR2 14P,SOIC TP BILA"	
		IC1	AF500068	0IPRPMN003C	"IC,PERIPHERALS"	VCT49XYF C7(NTSC+PAL) MICRON	
		IC800	AF500069	0IPRPNP001A	"IC,PERIPHERALS"	"SM5301BS(ATSC DTV) NPC 28P,H"	
		IC901	AF500067	0IPRPGN015A	"IC,PERIPHERALS"	"GM2221-BC GENESIS 208P,QFP T"	
		IC1108	AF500057	0IMCRKE010A	"IC,POWER MANAGEMENT"	KIA7812AF KEC 2P DPACK R/TP	
		IC1111	AF500055	0IMCRFA015A	"IC,POWER MANAGEMENT"	KA7805R FAIRCHILD 2P D-PAK R	
		IC1112	AF500057	0IMCRKE010A	"IC,POWER MANAGEMENT"	KIA7812AF KEC 2P DPACK R/TP	
		IC1115	AF500066	0IPMGFA061A	"IC,POWER MANAGEMENT"	"FAN1587AD33X FAIRCHILD 3P,DP"	
		IC1201	AF500066	0IPMGFA061A	"IC,POWER MANAGEMENT"	"FAN1587AD33X FAIRCHILD 3P,DP"	
		IC1110	AF500070	0ISS780800J	"IC,SAMSUNG ELECTRONICS"	"KA78M08R 3P,D-PAK TP VOL. RE"	
		IC1113	AF500070	0ISS780800J	"IC,SAMSUNG ELECTRONICS"	"KA78M08R 3P,D-PAK TP VOL. RE"	
		IC1200	AF500056	0IMCRFA021A	"IC,STANDARD LOGIC"	74VHCU04MX FAIRCHILD 14P SOP	
	COIL & CORE & INDUCTOR						
		L104	AF500201	6140TBZ045A	"COIL,CHOKE"	"38.5UH(DIP), 6A, P7.5, DR8.3"	
		L105	AF500201	6140TBZ045A	"COIL,CHOKE"	"38.5UH(DIP), 6A, P7.5, DR8.3"	
		L1150	AF500138	150-985B	"COIL,CHOKE"	DR8*11 2.4MH 0.16MM 270.5T	
		L1209	AF500164	6140VR0008B	"COIL,ENERGY RECOVERY"	SLF12575T-150M3R2 15UH SMD	
		L1100	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L1101	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L1103	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		L1104	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		L1105	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L1106	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L1107	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L1205	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L1206	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L1207	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L1208	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L1210	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L1232	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		L1233	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		L1234	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		L200	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		L202	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		L203	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		L204	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		L206	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		L800	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L853	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L900	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L901	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L902	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L903	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	

*S	*AL	LOC. NO.	TOSHIBAPART NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		L906	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L908	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L1102	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L201	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L205	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		L10	AF500074	0LC1032101A	"INDUCTOR,CHIP"	10UH 10% 3216 R/TC FI-C3216-	
		L1003	AF500074	0LC1032101A	"INDUCTOR,CHIP"	10UH 10% 3216 R/TC FI-C3216-	
		L1220	AF500196	0LC2000005F	"INDUCTOR,CHIP"	F1-C2012-562-KJT CERATECH R/	
		L1221	AF500196	0LC2000005F	"INDUCTOR,CHIP"	F1-C2012-562-KJT CERATECH R/	
		L1222	AF500196	0LC2000005F	"INDUCTOR,CHIP"	F1-C2012-562-KJT CERATECH R/	
		L1223	AF500196	0LC2000005F	"INDUCTOR,CHIP"	F1-C2012-562-KJT CERATECH R/	
		L15	AF500074	0LC1032101A	"INDUCTOR,CHIP"	10UH 10% 3216 R/TC FI-C3216-	
		L2	AF500074	0LC1032101A	"INDUCTOR,CHIP"	10UH 10% 3216 R/TC FI-C3216-	
		L1001	AF500073	0LC1020101A	"INDUCTOR,CHIP"	1UH 10% 2012 R/TC FI-B2012-1	
		L1200	AF500073	0LC1020101A	"INDUCTOR,CHIP"	1UH 10% 2012 R/TC FI-B2012-1	
		L1201	AF500072	0LC0233002A	"INDUCTOR,CHIP"	3.3UH CERATECH R/TP	
		L1202	AF500072	0LC0233002A	"INDUCTOR,CHIP"	3.3UH CERATECH R/TP	
		L1203	AF500072	0LC0233002A	"INDUCTOR,CHIP"	3.3UH CERATECH R/TP	
		L8	AF500074	0LC1032101A	"INDUCTOR,CHIP"	10UH 10% 3216 R/TC FI-C3216-	
	FET & TRANSISTOR						
		IC902	AF500133	0TF492509AA	FET	SI4925DY TP TEMIC 30V 6.1A	
		IC1104	AF500133	0TF492509AA	FET	SI4925DY TP TEMIC 30V 6.1A	
		IC1107	AF500133	0TF492509AA	FET	SI4925DY TP TEMIC 30V 6.1A	
		Q1150	AF500135	0TR322809AB	TRANSISTOR	KTC3228-Y(KTC2383) TP KEC TO	
		Q1201	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1202	AF500134	0TR150400BA	"TRANSISTOR,BIPOLARS"	CHIP 2SA1504S(ASY) BK KEC -	
		Q1204	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1209	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1210	AF500134	0TR150400BA	"TRANSISTOR,BIPOLARS"	CHIP 2SA1504S(ASY) BK KEC -	
		Q1212	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q603	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q100	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1000	AF500137	0TR388109AA	"TRANSISTOR,BIPOLARS"	KTC3881 CHIP TP KEC - -	
		Q101	AF500134	0TR150400BA	"TRANSISTOR,BIPOLARS"	CHIP 2SA1504S(ASY) BK KEC -	
		Q1100	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1151	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q12	AF500134	0TR150400BA	"TRANSISTOR,BIPOLARS"	CHIP 2SA1504S(ASY) BK KEC -	
		Q1200	AF500134	0TR150400BA	"TRANSISTOR,BIPOLARS"	CHIP 2SA1504S(ASY) BK KEC -	
		Q1203	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1205	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1206	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1207	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1208	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1211	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1213	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1214	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1215	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1216	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q13	AF500134	0TR150400BA	"TRANSISTOR,BIPOLARS"	CHIP 2SA1504S(ASY) BK KEC -	
		Q14	AF500134	0TR150400BA	"TRANSISTOR,BIPOLARS"	CHIP 2SA1504S(ASY) BK KEC -	
		Q15	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q2	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q3	AF500134	0TR150400BA	"TRANSISTOR,BIPOLARS"	CHIP 2SA1504S(ASY) BK KEC -	
	RESISTORs						
		R101	AF500087	0RH1500D622	"RESISTOR,CHIP"	150 1/10W 5 D.R/TP	
		R1010	AF500101	0RH6801D622	"RESISTOR,CHIP"	6.8K 1/10W 5 D.R/TP	
		R102	AF500079	0RH0682D622	"RESISTOR,CHIP"	68 1/10W 5 D.R/TP	

*S	*AL	LOC. NO.	TOSHIBAPART NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R107	AF500085	0RH1003D622	"RESISTOR,CHIP"	100K 1/10W 5 D.R/TP	
		R1149	AF500090	0RH2200D622	"RESISTOR,CHIP"	220 1/10W 5 D.R/TP	
		R1151	AF500096	0RH4700D622	"RESISTOR,CHIP"	470 1/10W 5 D.R/TP	
		R1153	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R1202	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R1205	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R1206	AF500088	0RH2000D622	"RESISTOR,CHIP"	200 OHM 1 / 10 W 5% D R/TP	
		R1207	AF500100	0RH6201D622	"RESISTOR,CHIP"	6.2K 1/10W 5 D.R/TP	
		R1220	AF500101	0RH6801D622	"RESISTOR,CHIP"	6.8K 1/10W 5 D.R/TP	
		R1223	AF500091	0RH2700D622	"RESISTOR,CHIP"	270 1/10W 5 D.R/TP	
		R1224	AF500091	0RH2700D622	"RESISTOR,CHIP"	270 1/10W 5 D.R/TP	
		R1227	AF500081	0RH0822D622	"RESISTOR,CHIP"	82 1/10W 5 D.R/TP	
		R1229	AF500090	0RH2200D622	"RESISTOR,CHIP"	220 1/10W 5 D.R/TP	
		R1241	AF500101	0RH6801D622	"RESISTOR,CHIP"	6.8K 1/10W 5 D.R/TP	
		R1243	AF500091	0RH2700D622	"RESISTOR,CHIP"	270 1/10W 5 D.R/TP	
		R1244	AF500091	0RH2700D622	"RESISTOR,CHIP"	270 1/10W 5 D.R/TP	
		R1247	AF500081	0RH0822D622	"RESISTOR,CHIP"	82 1/10W 5 D.R/TP	
		R126	AF500097	0RH4701D622	"RESISTOR,CHIP"	4.7K 1/10W 5 D.R/TP	
		R1265	AF500078	0RH0472D622	"RESISTOR,CHIP"	47 1/10W 5 D.R/TP	
		R1266	AF500078	0RH0472D622	"RESISTOR,CHIP"	47 1/10W 5 D.R/TP	
		R1280	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R132	AF500085	0RH1003D622	"RESISTOR,CHIP"	100K 1/10W 5 D.R/TP	
		R133	AF500085	0RH1003D622	"RESISTOR,CHIP"	100K 1/10W 5 D.R/TP	
		R134	AF500085	0RH1003D622	"RESISTOR,CHIP"	100K 1/10W 5 D.R/TP	
		R135	AF500085	0RH1003D622	"RESISTOR,CHIP"	100K 1/10W 5 D.R/TP	
		R140	AF500077	0RH0392D622	"RESISTOR,CHIP"	39 1/10W 5 D.R/TP	
		R141	AF500077	0RH0392D622	"RESISTOR,CHIP"	39 1/10W 5 D.R/TP	
		R142	AF500077	0RH0392D622	"RESISTOR,CHIP"	39 1/10W 5 D.R/TP	
		R143	AF500077	0RH0392D622	"RESISTOR,CHIP"	39 1/10W 5 D.R/TP	
		R144	AF500077	0RH0392D622	"RESISTOR,CHIP"	39 1/10W 5 D.R/TP	
		R145	AF500077	0RH0392D622	"RESISTOR,CHIP"	39 1/10W 5 D.R/TP	
		R146	AF500077	0RH0392D622	"RESISTOR,CHIP"	39 1/10W 5 D.R/TP	
		R147	AF500077	0RH0392D622	"RESISTOR,CHIP"	39 1/10W 5 D.R/TP	
		R211	AF500080	0RH0752D622	"RESISTOR,CHIP"	75 1/10W 5 D.R/TP	
		R212	AF500080	0RH0752D622	"RESISTOR,CHIP"	75 1/10W 5 D.R/TP	
		R213	AF500080	0RH0752D622	"RESISTOR,CHIP"	75 1/10W 5 D.R/TP	
		R214	AF500098	0RH4703D622	"RESISTOR,CHIP"	470K 1/10W 5 D.R/TP	
		R215	AF500093	0RH3301D622	"RESISTOR,CHIP"	3.3K 1/10W 5 D.R/TP	
		R216	AF500093	0RH3301D622	"RESISTOR,CHIP"	3.3K 1/10W 5 D.R/TP	
		R217	AF500098	0RH4703D622	"RESISTOR,CHIP"	470K 1/10W 5 D.R/TP	
		R57	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R59	AF500086	0RH1201D622	"RESISTOR,CHIP"	1.2K 1/10W 5 D.R/TP	
		R907	AF500093	0RH3301D622	"RESISTOR,CHIP"	3.3K 1/10W 5 D.R/TP	
		R908	AF500081	0RH0822D622	"RESISTOR,CHIP"	82 1/10W 5 D.R/TP	
		R910	AF500081	0RH0822D622	"RESISTOR,CHIP"	82 1/10W 5 D.R/TP	
		R912	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R915	AF500094	0RH3600D622	"RESISTOR,CHIP"	CHIP 360-J 1/10 W	
		R930	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R931	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R934	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R935	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R953	AF500093	0RH3301D622	"RESISTOR,CHIP"	3.3K 1/10W 5 D.R/TP	
		R97	AF500087	0RH1500D622	"RESISTOR,CHIP"	150 1/10W 5 D.R/TP	
		R979	AF500093	0RH3301D622	"RESISTOR,CHIP"	3.3K 1/10W 5 D.R/TP	
		R98	AF500079	0RH0682D622	"RESISTOR,CHIP"	68 1/10W 5 D.R/TP	
		R981	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R989	AF500102	0RH8200D622	"RESISTOR,CHIP"	820 1/10W 5 D.R/TP	

*S	*AL	LOC. NO.	TOSHIBAPART NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R999	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R136	AF500103	0RH8202D622	"RESISTOR,CHIP"	82K 1/10W 5 D.R/TP	
		R137	AF500103	0RH8202D622	"RESISTOR,CHIP"	82K 1/10W 5 D.R/TP	
		C932	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		C933	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R1011	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R106	AF500083	0RH1001D622	"RESISTOR,METAL GLAZED(CHI"	1K OHM 1 / 10 W 2012 5.00% D	
		R108	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R1106	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1152	AF500083	0RH1001D622	"RESISTOR,METAL GLAZED(CHI"	1K OHM 1 / 10 W 2012 5.00% D	
		R1203	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R1208	AF500089	0RH2002D622	"RESISTOR,METAL GLAZED(CHI"	20K OHM 1 / 10 W 2012 5.00%	
		R1209	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1221	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1222	AF500083	0RH1001D622	"RESISTOR,METAL GLAZED(CHI"	1K OHM 1 / 10 W 2012 5.00% D	
		R1225	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1226	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1230	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1231	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1233	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1235	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1236	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1237	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1240	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1242	AF500083	0RH1001D622	"RESISTOR,METAL GLAZED(CHI"	1K OHM 1 / 10 W 2012 5.00% D	
		R1245	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1246	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1251	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1253	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1255	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1256	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1257	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R128	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R129	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R202	AF500076	0RH0222D622	"RESISTOR,METAL GLAZED(CHI"	22 OHM 1 / 10 W 2012 5.00% D	
		R205	AF500076	0RH0222D622	"RESISTOR,METAL GLAZED(CHI"	22 OHM 1 / 10 W 2012 5.00% D	
		R207	AF500083	0RH1001D622	"RESISTOR,METAL GLAZED(CHI"	1K OHM 1 / 10 W 2012 5.00% D	
		R208	AF500076	0RH0222D622	"RESISTOR,METAL GLAZED(CHI"	22 OHM 1 / 10 W 2012 5.00% D	
		R209	AF500076	0RH0222D622	"RESISTOR,METAL GLAZED(CHI"	22 OHM 1 / 10 W 2012 5.00% D	
		R210	AF500076	0RH0222D622	"RESISTOR,METAL GLAZED(CHI"	22 OHM 1 / 10 W 2012 5.00% D	
		R219	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R26	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R27	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R35	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R7	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R903	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R913	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R914	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R917	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R938	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R954	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R961	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R964	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R993	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R1	AF500114	0RJ1002D677	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1/10 W 5% 1608 R/TP	
		R10	AF500123	0RJ3301D677	"RESISTOR,METAL GLAZED(CHI"	3.3K OHM 1/10 W 5% 1608 R/TP	
		R1001	AF500108	0RJ0562D677	"RESISTOR,METAL GLAZED(CHI"	56 OHM 1/10 W 5% 1608 R/TP	

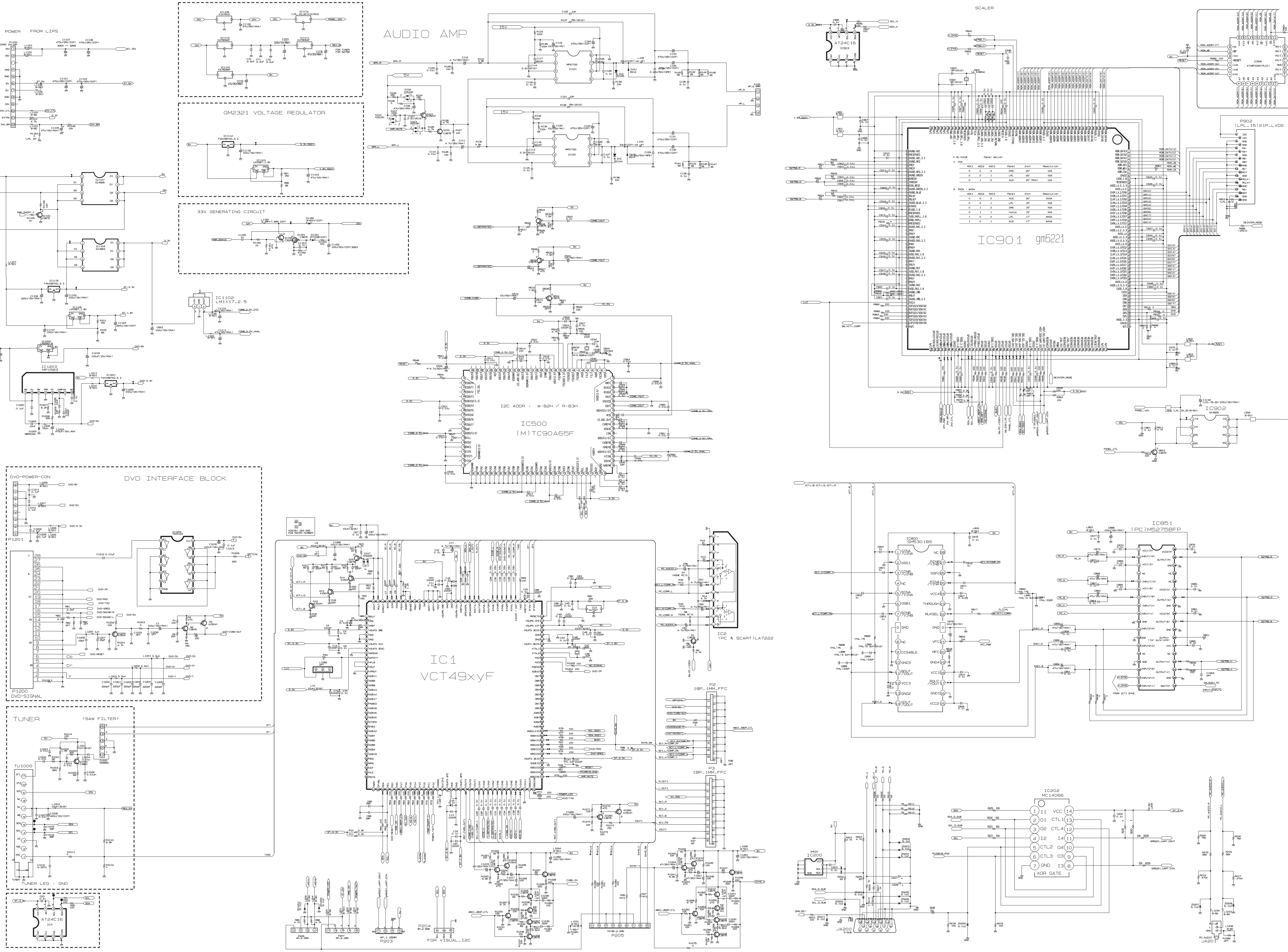
*S	*AL	LOC. NO.	TOSHIBAPART NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R1002	AF500117	0RJ1501D677	"RESISTOR,METAL GLAZED(CHI"	1.5K OHM 1/10 W 5% 1608 R/TP	
		R1003	AF500127	0RJ8200D677	"RESISTOR,METAL GLAZED(CHI"	820 OHM 1/10 W 5% 1608 R/TP	
		R1004	AF500122	0RJ3000D677	"RESISTOR,METAL GLAZED(CHI"	300 OHM 1/10 W 5% 1608 R/TP	
		R1005	AF500109	0RJ0682D677	"RESISTOR,METAL GLAZED(CHI"	68 OHM 1/10 W 5% 1608 R/TP	
		R1014	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R11	AF500123	0RJ3301D677	"RESISTOR,METAL GLAZED(CHI"	3.3K OHM 1/10 W 5% 1608 R/TP	
		R1105	AF500113	0RJ1001D677	"RESISTOR,METAL GLAZED(CHI"	1K OHM 1/10 W 5% 1608 R/TP	
		R1107	AF500125	0RJ4701D677	"RESISTOR,METAL GLAZED(CHI"	4.7K OHM 1/10 W 5% 1608 R/TP	
		R1150	AF500105	0RJ0102D677	"RESISTOR,METAL GLAZED(CHI"	10 OHM 1/10 W 5% 1608 R/TP	
		R1201	AF500125	0RJ4701D677	"RESISTOR,METAL GLAZED(CHI"	4.7K OHM 1/10 W 5% 1608 R/TP	
		R1204	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R1228	AF500118	0RJ2200D677	"RESISTOR,METAL GLAZED(CHI"	220 OHM 1/10 W 5% 1608 R/TP	
		R1232	AF500110	0RJ0822D677	"RESISTOR,METAL GLAZED(CHI"	82 OHM 1/10 W 5% 1608 R/TP	
		R1234	AF500110	0RJ0822D677	"RESISTOR,METAL GLAZED(CHI"	82 OHM 1/10 W 5% 1608 R/TP	
		R1238	AF500120	0RJ2700D677	"RESISTOR,METAL GLAZED(CHI"	270 OHM 1/10 W 5% 1608 R/TP	
		R1239	AF500120	0RJ2700D677	"RESISTOR,METAL GLAZED(CHI"	270 OHM 1/10 W 5% 1608 R/TP	
		R124	AF500116	0RJ1500D677	"RESISTOR,METAL GLAZED(CHI"	150 OHM 1/10 W 5% 1608 R/TP	
		R125	AF500125	0RJ4701D677	"RESISTOR,METAL GLAZED(CHI"	4.7K OHM 1/10 W 5% 1608 R/TP	
		R1250	AF500114	0RJ1002D677	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1/10 W 5% 1608 R/TP	
		R1252	AF500110	0RJ0822D677	"RESISTOR,METAL GLAZED(CHI"	82 OHM 1/10 W 5% 1608 R/TP	
		R1254	AF500110	0RJ0822D677	"RESISTOR,METAL GLAZED(CHI"	82 OHM 1/10 W 5% 1608 R/TP	
		R1258	AF500120	0RJ2700D677	"RESISTOR,METAL GLAZED(CHI"	270 OHM 1/10 W 5% 1608 R/TP	
		R1259	AF500120	0RJ2700D677	"RESISTOR,METAL GLAZED(CHI"	270 OHM 1/10 W 5% 1608 R/TP	
		R1260	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R1261	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R1267	AF500126	0RJ5101D677	"RESISTOR,METAL GLAZED(CHI"	5.1K OHM 1/10 W 5% 1608 R/TP	
		R1268	AF500126	0RJ5101D677	"RESISTOR,METAL GLAZED(CHI"	5.1K OHM 1/10 W 5% 1608 R/TP	
		R127	AF500121	0RJ2701D677	"RESISTOR,METAL GLAZED(CHI"	2.7K OHM 1/10 W 5% 1608 R/TP	
		R1275	AF500104	0RJ0000D677	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1/10 W 5% 1608 R/TP	
		R1281	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R1282	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R1284	AF500104	0RJ0000D677	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1/10 W 5% 1608 R/TP	
		R130	AF500115	0RJ1202D677	"RESISTOR,METAL GLAZED(CHI"	12K OHM 1/10 W 5% 1608 R/TP	
		R131	AF500115	0RJ1202D677	"RESISTOR,METAL GLAZED(CHI"	12K OHM 1/10 W 5% 1608 R/TP	
		R138	AF500114	0RJ1002D677	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1/10 W 5% 1608 R/TP	
		R139	AF500114	0RJ1002D677	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1/10 W 5% 1608 R/TP	
		R15	AF500110	0RJ0822D677	"RESISTOR,METAL GLAZED(CHI"	82 OHM 1/10 W 5% 1608 R/TP	
		R16	AF500118	0RJ2200D677	"RESISTOR,METAL GLAZED(CHI"	220 OHM 1/10 W 5% 1608 R/TP	
		R17	AF500110	0RJ0822D677	"RESISTOR,METAL GLAZED(CHI"	82 OHM 1/10 W 5% 1608 R/TP	
		R18	AF500118	0RJ2200D677	"RESISTOR,METAL GLAZED(CHI"	220 OHM 1/10 W 5% 1608 R/TP	
		R19	AF500110	0RJ0822D677	"RESISTOR,METAL GLAZED(CHI"	82 OHM 1/10 W 5% 1608 R/TP	
		R2	AF500199	0RJ2002D677	"RESISTOR,METAL GLAZED(CHI"	20000 OHM 1/10 W 5% 1608 R/T	
		R20	AF500118	0RJ2200D677	"RESISTOR,METAL GLAZED(CHI"	220 OHM 1/10 W 5% 1608 R/TP	
		R203	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R206	AF500113	0RJ1001D677	"RESISTOR,METAL GLAZED(CHI"	1K OHM 1/10 W 5% 1608 R/TP	
		R21	AF500106	0RJ0222D677	"RESISTOR,METAL GLAZED(CHI"	22 OHM 1/10 W 5% 1608 R/TP	
		R218	AF500114	0RJ1002D677	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1/10 W 5% 1608 R/TP	
		R22	AF500116	0RJ1500D677	"RESISTOR,METAL GLAZED(CHI"	150 OHM 1/10 W 5% 1608 R/TP	
		R221	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R224	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R225	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R226	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R227	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R229	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R23	AF500121	0RJ2701D677	"RESISTOR,METAL GLAZED(CHI"	2.7K OHM 1/10 W 5% 1608 R/TP	
		R24	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R240	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	

*S	*AL	LOC. NO.	TOSHIBAPART NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R25	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R3	AF500124	0RJ4700D677	"RESISTOR,METAL GLAZED(CHI"	470 OHM 1/10 W 5% 1608 R/TP	
		R34	AF500104	0RJ0000D677	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1/10 W 5% 1608 R/TP	
		R4	AF500198	0RJ1800D677	"RESISTOR,METAL GLAZED(CHI"	180 OHM 1/10 W 5% 1608 R/TP	
		R41	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R42	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R45	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R46	AF500113	0RJ1001D677	"RESISTOR,METAL GLAZED(CHI"	1K OHM 1/10 W 5% 1608 R/TP	
		R5	AF500109	0RJ0682D677	"RESISTOR,METAL GLAZED(CHI"	68 OHM 1/10 W 5% 1608 R/TP	
		R50	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R51	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R52	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R53	AF500116	0RJ1500D677	"RESISTOR,METAL GLAZED(CHI"	150 OHM 1/10 W 5% 1608 R/TP	
		R54	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R55	AF500116	0RJ1500D677	"RESISTOR,METAL GLAZED(CHI"	150 OHM 1/10 W 5% 1608 R/TP	
		R56	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R60	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R62	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R64	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R66	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R68	AF500104	0RJ0000D677	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1/10 W 5% 1608 R/TP	
		R69	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R70	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R72	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R73	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R74	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R75	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R76	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R77	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R78	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R8	AF500104	0RJ0000D677	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1/10 W 5% 1608 R/TP	
		R80	AF500119	0RJ2202D677	"RESISTOR,METAL GLAZED(CHI"	22K OHM 1/10 W 5% 1608 R/TP	
		R817	AF500104	0RJ0000D677	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1/10 W 5% 1608 R/TP	
		R818	AF500127	0RJ8200D677	"RESISTOR,METAL GLAZED(CHI"	820 OHM 1/10 W 5% 1608 R/TP	
		R822	AF500114	0RJ1002D677	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1/10 W 5% 1608 R/TP	
		R835	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R838	AF500104	0RJ0000D677	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1/10 W 5% 1608 R/TP	
		R85	AF500125	0RJ4701D677	"RESISTOR,METAL GLAZED(CHI"	4.7K OHM 1/10 W 5% 1608 R/TP	
		R86	AF500125	0RJ4701D677	"RESISTOR,METAL GLAZED(CHI"	4.7K OHM 1/10 W 5% 1608 R/TP	
		R901	AF500107	0RJ0472D677	"RESISTOR,METAL GLAZED(CHI"	47 OHM 1/10 W 5% 1608 R/TP	
		R902	AF500107	0RJ0472D677	"RESISTOR,METAL GLAZED(CHI"	47 OHM 1/10 W 5% 1608 R/TP	
		R904	AF500107	0RJ0472D677	"RESISTOR,METAL GLAZED(CHI"	47 OHM 1/10 W 5% 1608 R/TP	
		R909	AF500110	0RJ0822D677	"RESISTOR,METAL GLAZED(CHI"	82 OHM 1/10 W 5% 1608 R/TP	
		R911	AF500125	0RJ4701D677	"RESISTOR,METAL GLAZED(CHI"	4.7K OHM 1/10 W 5% 1608 R/TP	
		R932	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R936	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R942	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R943	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R944	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R945	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R946	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R947	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R96	AF500123	0RJ3301D677	"RESISTOR,METAL GLAZED(CHI"	3.3K OHM 1/10 W 5% 1608 R/TP	
		R980	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R982	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R983	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	
		R984	AF500111	0RJ1000D677	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/10 W 5% 1608 R/TP	

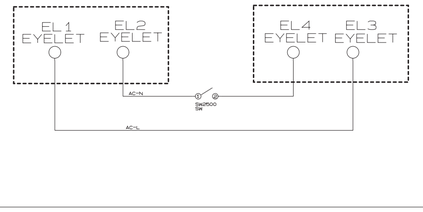
*S	*AL	LOC. NO.	TOSHIBAPART NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R985	AF500104	0RJ0000D677	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1/10 W 5% 1608 R/TP	
		R991	AF500123	0RJ3301D677	"RESISTOR,METAL GLAZED(CHI"	3.3K OHM 1/10 W 5% 1608 R/TP	
		R992	AF500123	0RJ3301D677	"RESISTOR,METAL GLAZED(CHI"	3.3K OHM 1/10 W 5% 1608 R/TP	
	OTHERs						
		Z1000	AF500202	6200QL3001Z	"FILTER(CIRC),SAW"	B39361-X6966-D100 EPCOS ST	
		X11	AF500166	6202VDT002E	"RESONATOR,CRYSTAL"	SX-1SMD SUNNY RADIAL 2025000	
		X900	AF500165	6202VDT002B	"RESONATOR,CRYSTAL"	SX-1 SUNNY SC14.3MHZ +/- 30	
		IC905	AF500203	6620F00017A	"SOCKET(CIRC),IC"	CCSD-32T-SM WOOYOUNG 32P PLC	
		TU1000	AF500204	6700VS0003D	TUNER	TAEW-G052P LGIT MULTI VS RCA	
	CONTROL BOARD						
		R2200	AF500128	0RN1000F409	"RESISTOR,FIXED METAL FILM"	100OHM 1/6 W 1% TA52	
		R2201	AF500132	0RN7500F409	"RESISTOR,FIXED METAL FILM"	750 1/6W 1% TA52	
		R2202	AF500129	0RN1801F409	"RESISTOR,FIXED METAL FILM"	1.80K 1/6W 1% TA52	
		R2203	AF500130	0RN3301F409	"RESISTOR,FIXED METAL FILM"	3.30K 1/6W 1% TA52	
		R2204	AF500131	0RN6201F409	"RESISTOR,FIXED METAL FILM"	6.20K 1/6W 1% TA52	
		R2205	AF500128	0RN1000F409	"RESISTOR,FIXED METAL FILM"	100OHM 1/6 W 1% TA52	
		R2206	AF500132	0RN7500F409	"RESISTOR,FIXED METAL FILM"	750 1/6W 1% TA52	
		R2207	AF500129	0RN1801F409	"RESISTOR,FIXED METAL FILM"	1.80K 1/6W 1% TA52	
		R2208	AF500130	0RN3301F409	"RESISTOR,FIXED METAL FILM"	3.30K 1/6W 1% TA52	
		R2209	AF500131	0RN6201F409	"RESISTOR,FIXED METAL FILM"	6.20K 1/6W 1% TA52	
		SW2200	AF500200	140-058E	"SWITCH,TACT"	SKHV10910B LGEC NON 12V 20A	
		SW2201	AF500200	140-058E	"SWITCH,TACT"	SKHV10910B LGEC NON 12V 20A	
		SW2202	AF500200	140-058E	"SWITCH,TACT"	SKHV10910B LGEC NON 12V 20A	
		SW2203	AF500200	140-058E	"SWITCH,TACT"	SKHV10910B LGEC NON 12V 20A	
		SW2204	AF500200	140-058E	"SWITCH,TACT"	SKHV10910B LGEC NON 12V 20A	
		SW2205	AF500200	140-058E	"SWITCH,TACT"	SKHV10910B LGEC NON 12V 20A	
		SW2206	AF500200	140-058E	"SWITCH,TACT"	SKHV10910B LGEC NON 12V 20A	
		SW2207	AF500200	140-058E	"SWITCH,TACT"	SKHV10910B LGEC NON 12V 20A	
		SW2208	AF500200	140-058E	"SWITCH,TACT"	SKHV10910B LGEC NON 12V 20A	
		SW2209	AF500200	140-058E	"SWITCH,TACT"	SKHV10910B LGEC NON 12V 20A	
	REAR JACK						
		C1215	AF500029	0CH6151K416	"CAPACITOR,CHIP[CERAMIC LD"	150PF 50V J NP0 2012 R/TP	
		C41	AF500021	0CH3104K566	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 50V 10% X7R 2012 R/TP	
		L1200	AF500168	6210TCE001G	"CORE (CIRC),BEAD"	HH-1M3216-501 CERATEC 3216MM	
		L1201	AF500196	0LC2000005F	"INDUCTOR,CHIP"	F1-C2012-562-KJT CERATECH R/	
		L1202	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		L1203	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		L1206	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		L1207	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		L1208	AF500196	0LC2000005F	"INDUCTOR,CHIP"	F1-C2012-562-KJT CERATECH R/	
		Q1200	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1201	AF500134	0TR150400BA	"TRANSISTOR,BIPOLARS"	CHIP 2SA1504S(ASY) BK KEC -	
		Q1203	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1204	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		R1202	AF500080	0RH0752D622	"RESISTOR,CHIP"	75 1/10W 5 D.R/TP	
		R1217	AF500080	0RH0752D622	"RESISTOR,CHIP"	75 1/10W 5 D.R/TP	
		R1218	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R1219	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R1220	AF500080	0RH0752D622	"RESISTOR,CHIP"	75 1/10W 5 D.R/TP	
		R1230	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		R1231	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R1232	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		R1233	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		R1234	AF500197	0RH0562D622	"RESISTOR,CHIP"	56 1/10W 5 D.R/TP	
		R1235	AF500101	0RH6801D622	"RESISTOR,CHIP"	6.8K 1/10W 5 D.R/TP	
		R1236	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1237	AF500083	0RH1001D622	"RESISTOR,METAL GLAZED(CHI"	1K OHM 1 / 10 W 2012 5.00% D	

*S	*AL	LOC. NO.	TOSHIBAPART NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R1238	AF500078	0RH0472D622	"RESISTOR,CHIP"	47 1/10W 5 D.R/TP	
		R1239	AF500091	0RH2700D622	"RESISTOR,CHIP"	270 1/10W 5 D.R/TP	
		R1240	AF500091	0RH2700D622	"RESISTOR,CHIP"	270 1/10W 5 D.R/TP	
		R1244	AF500090	0RH2200D622	"RESISTOR,CHIP"	220 1/10W 5 D.R/TP	
		R1245	AF500090	0RH2200D622	"RESISTOR,CHIP"	220 1/10W 5 D.R/TP	
		R1247	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1250	AF500091	0RH2700D622	"RESISTOR,CHIP"	270 1/10W 5 D.R/TP	
		R1253	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		ZD1200	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		ZD1201	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		ZD1202	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		ZD1203	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		ZD1206	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		ZD1207	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		C1216	AF500031	0CH6331K416	"CAPACITOR,CHIP[CERAMIC LD"	330PF 50V J NP0 2012 R/TP	
		C1217	AF500014	0CE476VH6DC	"CAPACITOR,FIXED ELECTROLY"	47UF MV 25V 20% R/TP(SMD) SM	
		C1218	AF500014	0CE476VH6DC	"CAPACITOR,FIXED ELECTROLY"	47UF MV 25V 20% R/TP(SMD) SM	
		C1219	AF500007	0CE107WF6DC	"CAPACITOR,FIXED ELECTROLY"	100UF MVK 16V 20% R/TP(SMD)	
		Q1202	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1205	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1206	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q1207	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		R1241	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1242	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1243	AF500081	0RH0822D622	"RESISTOR,CHIP"	82 1/10W 5 D.R/TP	
		R1246	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1248	AF500099	0RH5101D622	"RESISTOR,CHIP"	5.1K 1/10W 5 D.R/TP	
		R1252	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1255	AF500091	0RH2700D622	"RESISTOR,CHIP"	270 1/10W 5 D.R/TP	
		R1257	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		R1258	AF500084	0RH1002D622	"RESISTOR,METAL GLAZED(CHI"	10K OHM 1 / 10 W 2012 5.00%	
		C1303	AF500017	0CE477BF638	"CAPACITOR,AL.ELECTROLYTIC"	470UF KME TYPE 16V M FM5 TP	
	IR LED & P/SW						
		C2101	AF500021	0CH3104K566	"CAPACITOR,FIXED CERAMIC(H"	0.1UF 50V 10% X7R 2012 R/TP	
		L2101	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		Q2101	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q2102	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		Q2103	AF500136	0TR387500AA	"TRANSISTOR,BIPOLARS"	CHIP 2SC3875S(ALY) BK KEC -	
		R2101	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R2102	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R2103	AF500083	0RH1001D622	"RESISTOR,METAL GLAZED(CHI"	1K OHM 1 / 10 W 2012 5.00% D	
		R2104	AF500092	0RH3000D622	"RESISTOR,CHIP"	300 1/10W 5 D.R/TP	
		R2105	AF500090	0RH2200D622	"RESISTOR,CHIP"	220 1/10W 5 D.R/TP	
		R2106	AF500082	0RH1000D622	"RESISTOR,CHIP"	100 1/10W 5 D.R/TP	
		R2111	AF500095	0RH4301D622	"RESISTOR,CHIP"	4.3K 1/10W 5 TA	
		R2113	AF500075	0RH0000D622	"RESISTOR,METAL GLAZED(CHI"	0 OHM 1 / 10 W 2012 5.00% D	
		LED2100	AF500044	0DLLT0089AA	LED	LITEON LTL-1BEDJ-0C2 TP GREE	
	SIDE						
		C2300	AF500020	0CH3103K516	"CAPACITOR,FIXED CERAMIC(H"	10000PF 50V 10% B(Y5P) 2012	
		C2301	AF500020	0CH3103K516	"CAPACITOR,FIXED CERAMIC(H"	10000PF 50V 10% B(Y5P) 2012	
		C2302	AF500032	0CH6471K416	"CAPACITOR,CHIP[CERAMIC LD"	470F 50V J NP0 2012 R/TP	
		C2303	AF500032	0CH6471K416	"CAPACITOR,CHIP[CERAMIC LD"	470F 50V J NP0 2012 R/TP	
		C2305	AF500031	0CH6331K416	"CAPACITOR,CHIP[CERAMIC LD"	330PF 50V J NP0 2012 R/TP	
		C2306	AF500031	0CH6331K416	"CAPACITOR,CHIP[CERAMIC LD"	330PF 50V J NP0 2012 R/TP	
		C2307	AF500031	0CH6331K416	"CAPACITOR,CHIP[CERAMIC LD"	330PF 50V J NP0 2012 R/TP	
		C2308	AF500031	0CH6331K416	"CAPACITOR,CHIP[CERAMIC LD"	330PF 50V J NP0 2012 R/TP	
		L2300	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	

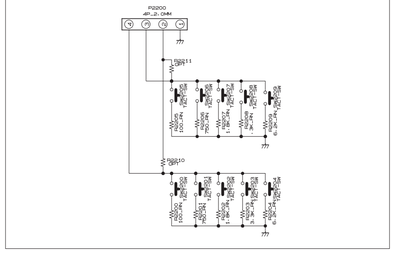
*S	*AL	LOC. NO.	TOSHIBAPART NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		L2301	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		L2302	AF500167	6210TCE001A	"CORE (CIRC),BEAD"	HB-1S2012-080JT CERATEC 2012	
		L2303	AF500074	0LC1032101A	"INDUCTOR,CHIP"	10UH 10% 3216 R/TC FI-C3216-	
		L2304	AF500074	0LC1032101A	"INDUCTOR,CHIP"	10UH 10% 3216 R/TC FI-C3216-	
		L2305	AF500072	0LC0233002A	"INDUCTOR,CHIP"	3.3UH CERATECH R/TP	
		L2306	AF500072	0LC0233002A	"INDUCTOR,CHIP"	3.3UH CERATECH R/TP	
		L2307	AF500072	0LC0233002A	"INDUCTOR,CHIP"	3.3UH CERATECH R/TP	
		L2308	AF500072	0LC0233002A	"INDUCTOR,CHIP"	3.3UH CERATECH R/TP	
		R2300	AF500112	0RJ1000H680	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/2 W 5% 5025 R/TP	
		R2301	AF500112	0RJ1000H680	"RESISTOR,METAL GLAZED(CHI"	100 OHM 1/2 W 5% 5025 R/TP	
		R2302	AF500080	0RH0752D622	"RESISTOR,CHIP"	75 1/10W 5 D.R/TP	
		R2303	AF500080	0RH0752D622	"RESISTOR,CHIP"	75 1/10W 5 D.R/TP	
		R2304	AF500080	0RH0752D622	"RESISTOR,CHIP"	75 1/10W 5 D.R/TP	
		R2305	AF500098	0RH4703D622	"RESISTOR,CHIP"	470K 1/10W 5 D.R/TP	
		R2306	AF500098	0RH4703D622	"RESISTOR,CHIP"	470K 1/10W 5 D.R/TP	
		R2307	AF500078	0RH0472D622	"RESISTOR,CHIP"	47 1/10W 5 D.R/TP	
		R2308	AF500099	0RH5101D622	"RESISTOR,CHIP"	5.1K 1/10W 5 D.R/TP	
		R2309	AF500099	0RH5101D622	"RESISTOR,CHIP"	5.1K 1/10W 5 D.R/TP	
		R2310	AF500080	0RH0752D622	"RESISTOR,CHIP"	75 1/10W 5 D.R/TP	
		R2311	AF500080	0RH0752D622	"RESISTOR,CHIP"	75 1/10W 5 D.R/TP	
		ZD2302	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		ZD2303	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		ZD2304	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		ZD2305	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
		ZD2306	AF500052	0DZ620009HB	"DIODE,ZENER"	UDZ S 6.2B TP ROHM SOD323 20	
	POWER JACK						
		SW2500	AF500173	6600VM1001A	"SWITCH,PUSH"	SDKLA1 ALPS UL/CSA 250V 5A V	


POWER FROM LIPS
P1100
AUDIO AMP
GM2321 VOLTAGE REGULATOR
33V GENERATING CIRCUIT
IC1102
LM1117_2.5
IC1203
MP1583
IC500
(M)TC90A65F
I2C ADDR : W:B2H / R:B3H
SCALER
AT24C16
IC903
IC905
AT49F002N(PLCC)
IC901 gm5221
P902
(LPL_15)21P_LVDS
IC902
SI4925
DVD INTERFACE BLOCK
DVD-POWER-CON
P1201
IC1200
74HCU04
P1200
DVD-SIGNAL
TUNER
<SAW FILTER>
TU1000
TUNER LEG : GND
AT24C16
IC4
IC1
VCT49xyF
IC2
(PC & SCART)LA7222
P2
18P_1MM_FFC
P3
18P_1MM_FFC
P203
P204
FOR VISUAL_I2C
P205
IC800
SM5301BS
IC851
(PC)M52758FP
IC200
JA200
IC202
MC14066
XOR GATE
JA201

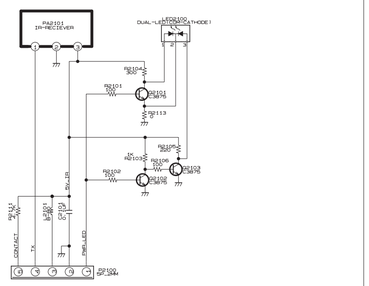
#POWER BOARD#



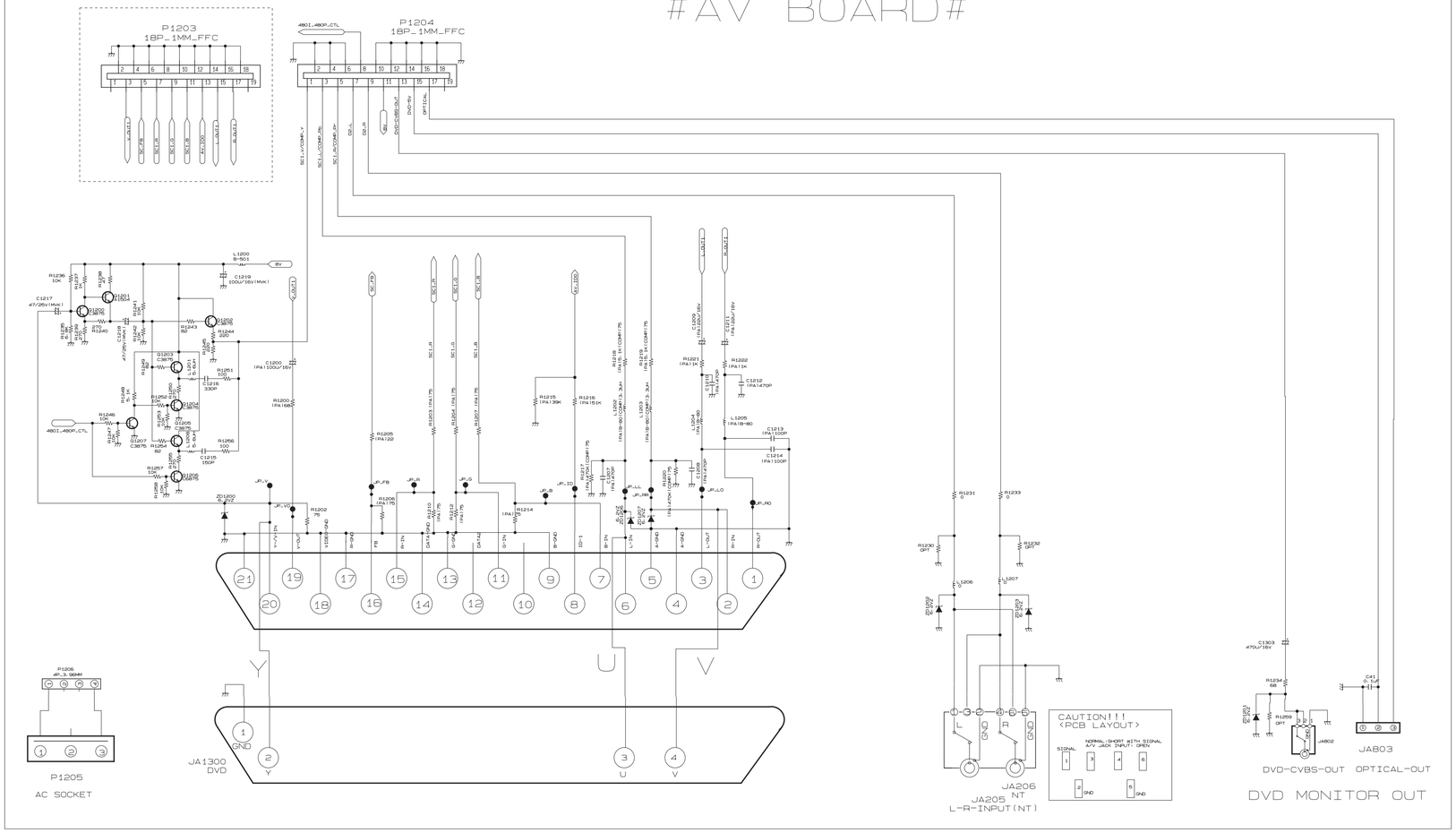
#KEY BOARD#



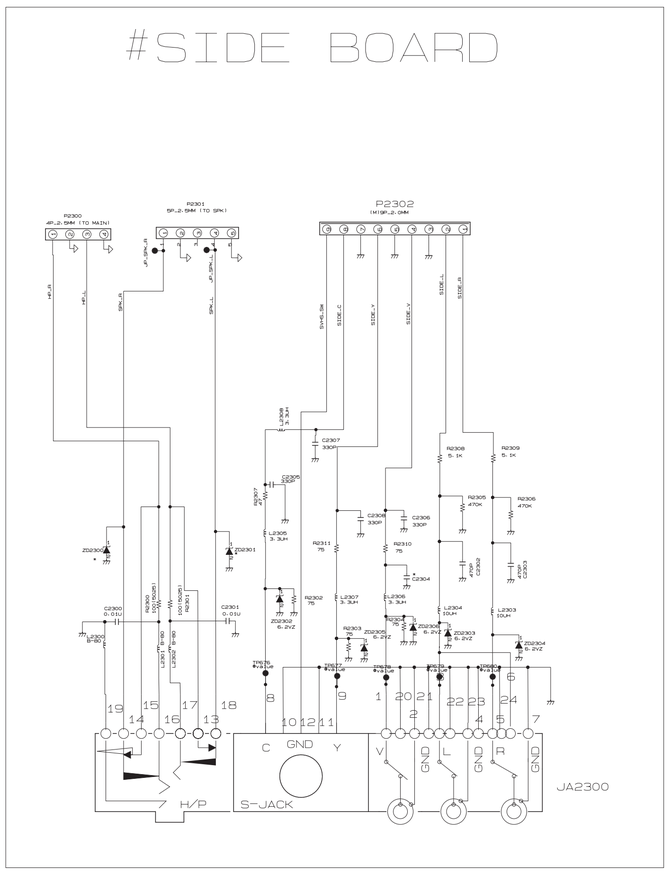
#IR BOARD#



#AV BOARD#



#SIDE BOARD



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